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Current Fishery Statistics No. 5600

U. S. DEPARTMENT OF COMMERCE
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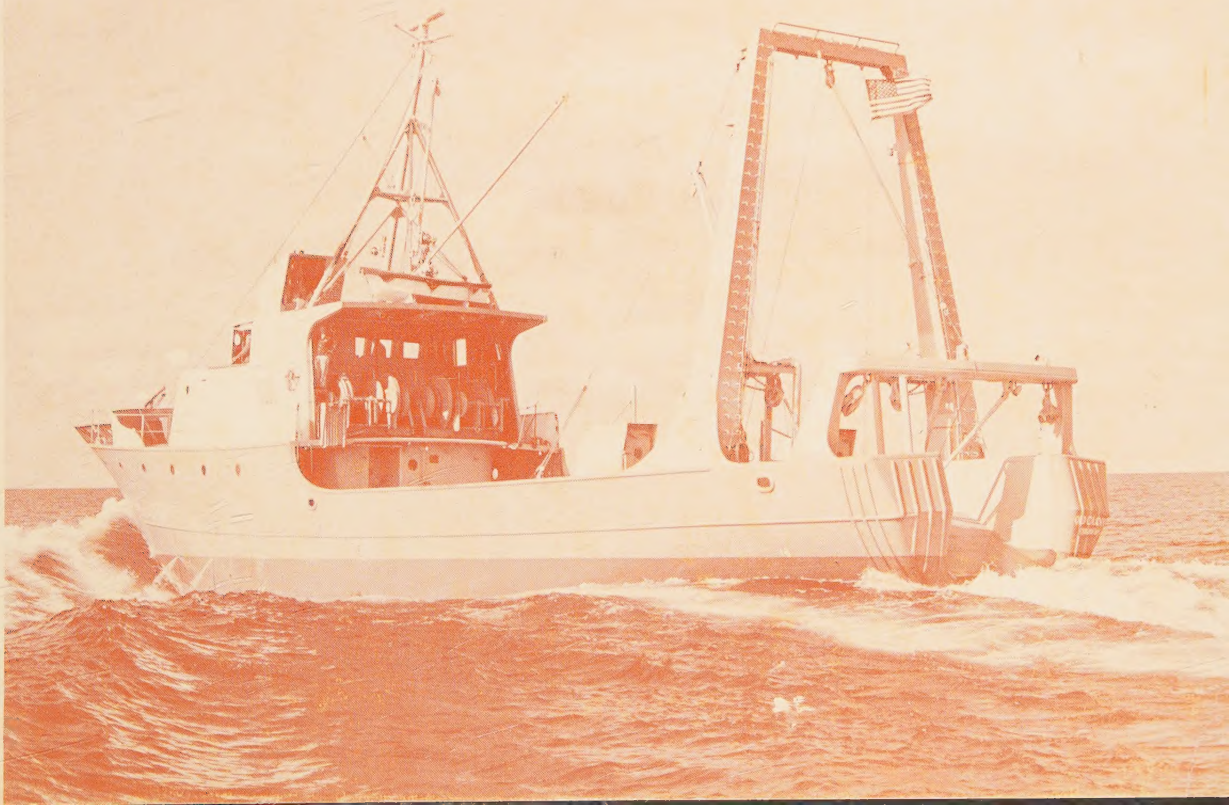

WASHINGTON, D.C.
MARCH 1971

COVER: New England Stern Trawler "OLD COLONY"
(Courtesy of "National Fisherman", Camden, Maine)

U. S. DEPARTMENT OF COMMERCE
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Current Fishery Statistics No. 5600

Fisheries of the United States, 1970

FRANCIS RILEY, Acting Chief,
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Washington, D. C.
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REVIEW

United States fishermen caught 4,884 million pounds of fish, shellfish, and other aquatic plants and animals that sold for $602 million--the highest dollar value in the history of our fisheries. The value of the catch was $83.4 million of 16 percent more than in 1969 and 36 percent above the 1964-68 average. The volume taken was 591 million pounds or 14 percent more than in 1969 and the largest catch taken since the all-time record catch of 5.4 billion pounds in 1962. The 1970 catch was the seventh largest on record.

There were record landings of tuna, Gulf menhaden, California anchovies, shrimp, Dungeness crabs, snow crabs, surf clam meats, northern lobsters, and spiny lobsters in 1970; and sharp increases in the landings of Atlantic menhaden and Pacific salmon. Landings of Atlantic flounders and blue crabs also were higher in 1970 than in 1969. There were marked declines in the catches of Atlantic alewives and haddock, and landings of Atlantic cod, bonito, jack mackerel, king crab, sea scallop meats, and oyster meats were somewhat lower than landings in 1969.

The value of processed fishery products produced in this country from both domestic and imported raw materials was a record $1.7 billion--15 percent above that of 1969. The canned pack of 46.5 million standard cases was valued at $750.7 million compared with $580.8 million in 1969. There were record packs of tuna, shrimp, and animal (pet) food and a larger production of salmon, crab meat, clam products, and oyster items. Production of fish sticks and portions was a record 349.4 million pounds valued at $155.3 million pounds. Breaded shrimp production was 103.1 million pounds valued at $109.0 million. Production of industrial fishery products registered a gain of $15.5 million over 1969 to reach $100 million for the first time. The fast growing fish and chips franchise chains continued to expand, and processors of fish and shellfish specialty dinners and other packaged fish and shellfish items continued to produce in greater volume in 1970 with products valued at over $460 million. Exports of domestically-produced fishery products were worth a record $117.7 million, while imports also reached a new high of just over $1 billion.

At year end, there were some problems associated with pollutants in the environment, high inventories of some frozen products, and declines in resource availability due to both natural causes and heavy fishing. However, many segments of the industry remained highly competitive with foreign fleets and production, and operated at record volume. With only few exceptions, prices for fishery products generally increased at all levels--exvessel, wholesale, and retail. Demand for fishery products was strong in 1970 as evidenced by rising consumption and rising prices. Civilian per capita consumption of edible fishery products in the United States increased from 11.1 pounds of edible meat in 1969 to 11.4 pounds in 1970--the highest since 1953.

REVIEW

HIGHLIGHTS

RECORDS ESTABLISHED

- CATCH
  - Total value --- $601.9 million. . . . . .(previous high, 1969 -- $518.5 million).
  - Anchovies, Pacific --- 190.9 million pounds. . . . . .(previous high, 1969 -- 135.3 million pounds).
  - Menhaden, Gulf --- 1,232 million pounds. . . . . .(previous high, 1969 -- 1,155 million pounds).
  - Tuna, total (all species) --- 393.0 million pounds. . . . . .(previous high, 1950 -- 391.5 million pounds).
  - Tuna, yellowfin --- 237.4 million pounds. . . . . .(previous high, 1969 -- 204.8 million pounds).
  - Clam meats, surf --- 61.2 million pounds. . . . . .(previous high, 1969 -- 47.5 million pounds).
  - Crabs, Dungeness --- 58.7 million pounds. . . . . .(previous high, 1969 -- 49.1 million pounds).
  - Crabs, snow --- 15.5 million pounds. . . . . .(previous high, 1969 -- 11.2 million pounds).
  - Lobsters, northern --- 32.7 million pounds. . . . . .(previous high, 1968 -- 32.6 million pounds).
  - Lobsters, spiny --- 10.2 million pounds. . . . . .(previous high, 1969 -- 7.9 million pounds).
  - Shrimp --- 368.1 million pounds (heads-on basis). . . . . .(previous high, 1969 -- 317.1 million pounds, heads-on basis).
- PROCESSED FISHERY PRODUCTS
  - Total value --- $1,700 million. . . . . .(previous high, 1969 -- $1,479 million).
  - Tuna, canned --- 22.1 million standard cases. . . . . .(previous high, 1968 -- 20.0 million cases).
  - Shrimp, canned --- 3.9 million standard cases. . . . . .(previous high, 1937 -- 3.2 million cases).

- PROCESSED FISHERY PRODUCTS - Continued
  - Animal (pet) food, canned --- 11.2 million standard cases. . . . . .(previous high, 1968 -- 10.1 million cases).
  - Fish portions --- 233.4 million pounds. . . . . .(previous high, 1969 -- 217.1 million pounds).
  - Fish sticks --- 115.9 million pounds. . . . . .(previous high, 1969 -- 113.4 million pounds).
- IMPORTS
  - Total value --- $1,039.6 million. . . . . .(previous high, 1969 -- $844.3 million).
  - Edible fishery products --- 3,692 million pounds (live weight). . . . . .(previous high, 1969 -- 3,353 million pounds).
  - Groundfish and ocean perch (including blocks and slabs) --- 458.8 million pounds . . . . . .(previous high, 1969 -- 426.7 million pounds).
  - Fillets and steaks (other than groundfish) --- 136.1 million pounds. . . . . (previous high, 1969 -- 120.4 million pounds).
  - Tuna, albacore, frozen --- 205.3 million pounds. . . . . .(previous high, 1969 -- 198.4 million pounds).
  - Tuna, other than albacore, frozen --- 234.3 million pounds. . . . . .(previous high, 1968 -- 210.5 million pounds).
  - Scallops, sea (meats) --- 16.8 million pounds. . . . . .(previous high, 1966 -- 16.7 million pounds).
  - Shrimp --- 254.7 million pounds (heads-off basis). . . . . .(previous high, 1969 -- 220.1 million pounds).
- EXPORTS
  - Total value --- $117.7 million. . . . . .(previous high, 1969 -- $104.5 million).
  - Shrimp, domestic, fresh or frozen --- 29.6 million pounds. . . . . .(previous high, 1969 -- 25.2 million pounds).
  - Shrimp, domestic, canned --- 6.1 million pounds. . . . . .(previous high, 1969 -- 5.7 million pounds).

REVIEW

- SUPPLY (Domestic production plus imports)
  - Edible fishery products --- 6,174 million pounds (live weight). . . . . .(previous high, 1969 -- 5,599 million pounds).
  - Groundfish and ocean perch fillets (including blocks and slabs) --- 501.6 million pounds. . . . . .(previous high, 1969 -- 474.0 million pounds).
  - Fillets and steaks (other than groundfish) --- 227.0 million pounds. . . . . (previous high, 1969 -- 209.9 million pounds).
  - Tuna, canned --- 510.3 million pounds. . . . . .(previous high, 1969 -- 469.2 million pounds).
  - Shrimp, fresh and frozen --- 478.7 million pounds (heads-off basis). . . . . (previous high, 1969 -- 415.6 million pounds, heads-off basis).
  - Shrimp, canned --- 24.2 million pounds. . . . . .(previous high, 1968 -- 18.8 million pounds).

OTHER IMPORTANT FACTS

- The menhaden catch of 1,814 million pounds accounted for 37 percent of the total United States catch of all species.
- Shrimp accounted for 22 percent of the total United States exvessel value paid for all species.
- Louisiana led all States in volume of catch --- 1,110 million pounds --- followed by California, 694.2 million pounds --- Virginia, 583.2 million pounds --- Alaska, 528.6 million pounds --- and Mississippi, 301.3 million pounds.
- Alaska led all States in value of catch --- $89.7 million --- followed by California, $84.5 million --- Louisiana, $62.0 million --- Texas, $53.5 million --- and Massachusetts, $45.8 million.
- San Pedro, California led all other domestic fishing ports in volume and value of the catch.
- The 1970 catch of tuna by American flag vessels that landed at Puerto Rico, American Samoa, or exported to European markets was 92.3 million pounds valued at about $16.5 million.
- The 1970 catch of shrimp by American flag vessels that operated out of ports in South and Central America was reported as 48.8 million pounds (heads-on) valued at $30.4 million.

REVIEW

- Landings by American flag vessels at Puerto Rico, American Samoa, or foreign countries are not, as yet, enumerated with United States catch data. If they had been included, the 1970 catch would have been 3 percent larger in volume and nearly 8 percent greater in value than the official catch data reported in this publication.

- There were 80 fishery cooperatives in the United States and Puerto Rico in 1970. These cooperatives had 9,456 members who operated or owned a total of 6,895 craft.

- Peru was the world leader in total fishery landings in 1969 followed by Japan, Union of Soviet Socialist Republics, Mainland China, United States, and Norway.

- Iceland led all nations in per capita consumption of fishery products with 86.1 pounds of edible meat followed by Japan with 71.6 pounds. The per capita consumption of fishery products in the United States was 11.4 pounds of edible meat in 1970.

- In 1970, about 2,482 million pounds of the domestic catch were used for human food as fresh and frozen, canned or cured items. Approximately 2,402 million pounds were used as fresh and frozen and canned bait and animal food or reduced to meal, oil and solubles.

- For the first time since 1959, imports of canned tuna (not in oil) exceeded the quota set by the Department of the Treasury. Imports totaled 70.9 million pounds in 1970--the quota was set at 70.1 million pounds.

IMPORTANT SPECIES

Menhaden. . . . .The total catch of menhaden, the principal species taken by Atlantic and Gulf fishermen, was 1.8 billion pounds--the largest catch since 1962. Landings were 17 percent heavier than in 1969 and 27 percent greater than the 1964-68 average of 1.4 billion pounds. Fishing for menhaden in the Atlantic was much better in 1970 than in 1969. For the first time in many years, menhaden were reported in commercial quantities as far north as Massachusetts. Landings in the Gulf of Mexico established a new record of over 1.2 billion pounds.

Production of menhaden meal (186,820 tons) was 17 percent over the 1969 production and the largest since 1962. Good prices were paid for all menhaden products (meal, oil, and solubles) and the total value to producers, at the production point, increased from $38.3 million in 1969 to $54.1 million in 1970. Imports of fish meal continued to decline as prices increased. Imports (251,492 tons) were off 30 percent from the 358,350 tons imported in 1969, and for the first time since 1962, imports accounted for less than 50 percent of the total supply available for consumption in this country. United States exports of domestic fish oils were 158.8 million pounds in 1970--somewhat less than the 196.1 million pounds exported in 1969 but still well above the 1964-68 average. The high exports in the past two years were in response to a heavy European demand for all oils.

Salmon. . . . .The total Pacific salmon catch was 396.7 million pounds--61 percent larger than the 246.2 million pounds taken in 1969 and the largest catch since 1949. Landings of all five species (king, chum, pink, red, and silver) were larger. The 1970 canned pack of Pacific salmon totaled 3.9 million cases and was the largest pack since 1966 and the second largest since 1954.

Alaska accounted for 84 percent (333.3 million pounds) of the total catch. Preseason forecasts in Alaska predicted that the red or sockeye salmon run to Bristol Bay would be 50 to 60 million fish and that there would be excellent pink salmon fishing around Kodiak Island and in Southeastern Alaska. Only at Kodiak did the prediction hold true. The Bristol Bay run, although very good, fell somewhat short of predictions and the pink salmon run to Southeastern Alaska failed to materialize. There were record catches of silver salmon taken off Washington and Oregon.

Tuna. . . . .The catch of tuna landed in the continental United States and Hawaii was a record 393.0 million pounds valued at $74.7 million. Landings were 70.0 million pounds above the 323.0 million pounds landed in 1969, 89.8 million pounds above the 1964-68 average of 303.2 million pounds, and 1.5 million pounds above the previous 1950 record of 391.5 million pounds. In addition to higher landings, average exvessel prices increased 13 percent over 1969, meaning higher earnings for the fishermen in 1970.

Not included in the above totals or enumerated with United States catch data were 92.3 million pounds of tuna (valued at $16.5 million) taken by American flag vessels and landed at Puerto Rico, American Samoa, or exported to European markets.

The tuna catch landed at California ports was well above 1969 landings. The catch of bluefin tuna was off, but good catches of skipjack and record catches of yellowfin were landed. Albacore fishing was excellent off the northern coast of California but rather poor off Oregon. Total albacore landings from waters off the Pacific Northwest were slightly above the excellent landings in 1969.

In accordance with the recommendations of the Inter-American Tropical Tuna Commission, the 1970 quota of yellowfin tuna from the eastern tropical Pacific was held to 120,000 tons and the fishery closed on March 23, 1970. After the quota was taken, a reported total of 25 American flag vessels operated in eastern Atlantic waters off West Africa and another eight tuna seiners fished on an exploratory basis in the western Pacific Ocean.

The 1970 pack of canned tuna was a record 22.1 million standard cases exceeding the previous record pack of 1968 by 2.1 million cases. The total supply of canned tuna (U.S. pack from domestic catch plus U.S. pack from imported tuna plus imported canned) was a record 510.3 million pounds. The pack from the domestic catch increased while the pack from imports decreased. Imports of canned tuna (72.3 million pounds) were slightly less (1 percent) than in 1969.

Groundfish. . . . .The Atlantic fishery for groundfish (cod, cusk, haddock, ocean perch, pollock, and white hake) yielded a catch of only 149.3 million pounds--the lowest on record. However, while the catch was 23.8 million pounds less than in 1969, average exvessel prices paid to fishermen in 1970 were much higher and fishermen received $15.5 million compared with $15.4 million in 1969. Of the six species, only cusk and white hake showed increases. Ocean perch and pollock held at the 1969 levels while cod was down 5.2 million pounds and haddock, 19.3 million pounds.

The decline of the New England haddock fishery continued in 1970 with landings falling from 46.2 million pounds in 1969 to 26.9 million pounds in 1970. The 1963 year-class of haddock was one of the largest on record and in 1965-66, this resource was heavily fished by domestic and foreign fleets. There has not been a successful year-class of haddock since 1963. In 1969, the International Commission for the Northwest Atlantic Fisheries recommended an annual catch quota of 12,000 tons for 1970-72 and complete closure of the spawning grounds in March and April. The fishery was closed in 1970 during the spawning season on Georges Bank and in the Gulf of Maine (Subarea 5) and was again closed on October 23 for the remainder of the year when 80 percent of the quota was taken. The remaining 20 percent of the quota was taken as incidental to other fisheries during the closed season.

Herring, sea. . . . .The catch of Atlantic sea herring was 66.8 million pounds--only slightly lower than the 68.5 million pounds landed in 1969 and 8.0 million pounds less than the 1964-68 average of 74.8 million pounds.

In Maine, where sea herring are used principally to pack "canned sardines," landings dropped from 54.2 million pounds in 1969 to 34.0 million pounds in 1970--the smallest catch since 1938. Poor fishing was experienced throughout the Gulf of Maine and canneries operated at less than full capacity throughout the year. Studies on the effect of environmental conditions on the habits, supply, and movement of herring along the Maine Coast were begun in 1970 under a grant by the Maine Sardine Council to the Research Institute of the Gulf of Maine and the Maine Medical Center, supplementing biological research that has been carried on by State and Federal agencies during the past 25 years.

Landings at Massachusetts increased from 9.9 million pounds in 1959 to 27.4 million pounds in 1970. Most of the catch was taken from Jeffrey's Ledge. About a third of the catch was cut into butterfly fillets, frozen, and exported to Europe. The rest of the catch was made into meal and oil. In addition to the domestic catch, approximately 23.4 million pounds were taken by foreign vessels outside the United States' 12-mile limit and transferred to U.S. carrier vessels for delivery to domestic fish meal plants. Such shipments are treated as duty-free imports by Customs regulations.

Flounders. . . . .The catch of Atlantic and Gulf flounders (122.0 million pounds) was 4.5 million pounds or 4 percent above the 1969 landings. Yellowtail landings of 72.7 million pounds--a little better than in 1969--accounted for 60 percent of the volume and 54 percent of the value of the total catch.

Because of overfishing of the yellowtail resource by both domestic and foreign fleets during the past several years, the International Commission for the Northwest Atlantic Fisheries recommended that member governments take appropriate action to regulate the yellowtail catch by persons under their jurisdiction fishing in Subarea 5 (ICNAF), and that trawl regulations applicable to cod and haddock be extended to yellowtail flounder. Beginning in 1971, this fishery will be regulated by closed seasons, trawl regulations, and catch quotas.

Whiting. . . . .Landings of whiting in 1970 were 45.0 million pounds--just slightly less than the 46.3 million pounds landed in 1969 but well below the 1964-68 average of 83.2 million pounds. However, the average exvessel prices paid to fishermen were at a record-high level. Fishermen were paid $3.9 million for the 1970 catch and $2.7 million for nearly the same volume in 1969. Because of the relatively low volume taken in 1969 and only small inventories on hand when the 1970 season opened, fishermen were paid 10 cents per pound at the beginning of the season. The price finally settled at about 9 cents. Cold storage inventories began to build up as imports increased in volume, but exvessel prices remained firm. Average prices paid to fishermen at Gloucester averaged 8.6 cents in 1970 compared to 5.9 cents in 1969. By the end of 1970, industry was concerned about moving the high-priced inventories.

Mackerel, jack and Pacific. . . . .The combined landings of jack and Pacific mackerel totaled 48.0 million pounds--6.3 million pounds or 12 percent less than in 1969. Jack mackerel landings were down from 51.9 million in 1969 to 47.2 million in 1970. Pacific mackerel landings declined from 2.4 million pounds to only 800,000 pounds--the lowest annual catch since 1915. There was no fishing effort lost due to exvessel price disputes or contract negotiations, and jack mackerel appeared in fairly productive quantities on southern California fishing grounds at the beginning of 1970. However, many of the fishing vessels concentrated on the anchovy fishery at the expense of jack mackerel, causing lower landings. Legislative changes in August 1970 established a moratorium on taking Pacific mackerel, except for an allowable 18 percent taken incidentally while fishing for other species. The moratorium will remain in effect until the 61st day after adjournment of the 1972 Regular Legislative Session.

Anchovies, Pacific. . . . .Landings of anchovies at California ports (used almost entirely in the processing of fish meal and oil) totaled a record 190.9 million pounds. The catch was well above the 135.3 million pounds landed in 1969 and the 1964-68 average of 34.7 million pounds. For the second consecutive season in the six-year history of this reduction fishery, activities got underway on the season's opening date. The increased catch resulted from greater fishing effort, early season price agreement, and the favorable market conditions for anchovy meal. The 1970-71 season quota was set at 110,000 short tons.

Halibut, Pacific. . . . . .The Pacific halibut fishery, operating under an international quota program, remained in a healthy condition in 1970. United States and Canadian fishermen landed 55.3 million pounds (dressed weight) of halibut and for the second time since 1966 reached the annual quota set by the International Pacific Halibut Commission. The Canadian fleet took 29.2 million pounds (dressed weight) or 53 percent--domestic fishermen, 26.1 million pounds or 47 percent. The 1970 halibut exvessel prices continued firm, reaching record heights for most of the season but dropping towards the end of the season due to mounting frozen halibut inventories.

Shrimp. . . . .United States fishermen took a record catch of 368.1 million pounds of shrimp (heads-on) in 1970 and were paid a record $129.7 million. This is the first domestic fishery to exceed $125 million. Compared with 1969, landings were 16 percent larger and although average prices paid to fishermen were lower than in 1969, the increase in catch took the total value to a new high.

Landings in the Gulf States of 230.7 million pounds approached the 1954 record landings of 237.2 million pounds. Excellent fishing in both inshore and offshore waters of Louisiana and Texas greatly contributed to the near record volume of landings. However, the large landings coupled with record imports resulted in substantial exvessel price declines.

Fishermen along the South Atlantic coast had a poor year. Total landings were only 20.9 million pounds valued at $11.4 million compared with the 1969 production of 27.4 million pounds valued at $16.4 million.

In New England, shrimp landings declined from 28.9 million pounds in 1969 to 23.6 million pounds in 1970. Landings at Massachusetts increased--all of the loss was in the catch landed at Maine ports.

On the Pacific Coast, the shrimp harvest yielded a record 92.9 million pounds--49 percent greater than in the previous year. Landings at Oregon ports were a record 13.5 million pounds and at Alaskan ports, 74.0 million pounds. Although shrimp are landed in Southeastern Alaska, Prince William Sound, Cook Inlet, and in the Chignih area, the industry is mainly centered around Kodiak Island where 84 percent of the 1970 Alaskan catch was landed. The Alaskan shrimp industry is developing rapidly with the introduction of new vessels and peeling machines.

In addition to landings at United States ports, other American shrimp flag vessels fishing out of Trinidad, Barbados, Guyana, Surinam, Nicaragua, and French Guiana caught about 48.8 million pounds (heads-on) valued at $32.4 million--slightly more than the reported 47.9 million pounds valued at $30.4 million taken in 1969.

Scallops, sea. . . . .The sea scallop fishery yielded landings of only 7.4 million pounds in 1970--2.3 million pounds less than taken in the previous year and less than half the 1964-68 average of 15.4 million pounds. Despite the decline in volume, fishermen were paid $9.3 million--only slightly below the $9.8 million paid for the larger 1969 catch. Fishing off the Middle Atlantic States was poor; most of the catch came from the Georges Bank and Channel areas. Because of scarcity of sea scallops, fishermen continued cutting small shellstock which in other years would have been returned to the ocean to grow another season.

The Alaskan sea scallop fishery continued to decline and landings of 1.4 million pounds were somewhat below the 1969 production of 1.9 million pounds. The abundance that was predicted for Alaska was not realized and because of this, there was a reduction in fishing effort in 1970.

Crabs, blue. . . . .The Atlantic and Gulf catch of blue crabs was 142.4 million pounds--12.5 million more than in the previous year but 10.2 million pounds below the 1964-68 average of 152.6 million pounds. The harvest in the Chesapeake Bay area was short of the preseason prediction supposedly caused by adverse weather conditions. The outlook for the Chesapeake Bay area will remain poor during most of 1971 according to the Virginia Institute of Marine Science.

Crabs, Dungeness. . . . .Dungeness crab fishing in the Pacific Northwest produced a record catch of 58.7 million pounds valued at $13.9 million. Compared with the previous year, the catch increased 9.6 million pounds or 20 percent in volume and $3.4 million or 32 percent in value. For the first time since 1960 the harvest of Dungeness crabs exceeded the catch of king crabs. Expanded distribution of whole cooked and live crabs and the scarcity and high price of king crab accounted for the excellent marketing of the Dungeness crab in 1970.

Crabs, king. . . . .The 1970 catch of Alaska king crab was 51.9 million pounds valued at $13.8 million. This was a decrease of 3.9 million pounds compared with 1969 and the 1970 landings were well below the 1964-68 average of 117.5 million pounds. In an effort to conserve the king crab resource, 1970 regulations called for six-month closures of certain grounds, stringent quotas in most areas, and a limitation on the number of crab pots per vessel. During periods of closures, many crabbers shifted to fishing snow crab that can be taken with the same gear and processed in existing king crab facilities.

Crabs, snow. . . . .The continuing decline in king crab landings has resulted in a growing interest in the snow crab resource. Landings of snow crab at Alaskan ports increased from 11.2 million pounds in 1969 to a record 15.5 million pounds in 1970. Packers looked to this species to supplement the shortage of king crab and in 1970, a record pack of snow crab (36,326 cases) was canned in Alaska. In 1970 the Food and Drug Administration ruled that "snow" has been the common or usual name for crab meat from the Chionoecetes genus and that "queen" is of relatively recent origin; thus, the name "snow" will be used for labeling and "queen" will be prohibited.

Oysters. . . . .The 1970 harvest of oyster meats was 50.6 million pounds compared with 51.9 million pounds in 1969. Production in and around Chesapeake Bay and the State of Washington was a little better than in 1969 but declined in South Carolina and in all of the Gulf States. A factor in the decline in the Gulf States was that oyster reefs in Louisiana and Mississippi waters had not fully recovered from the effects of Hurricane Camille that devastated the Mississippi coast and the lower reaches of Louisiana in August 1969.

PROCESSED FISHERY PRODUCTS

Canned fishery products. . . . .The 1970 pack of canned fishery products in the United States, American Samoa and Puerto Rico was 46.5 million standard cases (1.4 billion pounds) valued at $750.7 million to the packers. This was an increase of 6.2 million cases (192.6 million pounds) in volume and $169.8 million in value compared with 1969. There were record packs of tuna, shrimp, and animal (pet) food and larger production of salmon, crab meat, clams and clam products, and oyster items. The canned packs of tunalike fish, Maine sardines, mackerel, alewives, and squid were less than in 1969.

The pack for human consumption (812.6 million pounds) was 104.0 million pounds more than in 1969, while the amount for bait and animal food increased 88.5 million pounds. Five items--salmon, tuna, shrimp, clam products and animal food--accounted for 92 percent of the total value of all canned fishery products. Animal (pet) food containing less than 10 pounds of fish per standard case (4,279,615 standard cases valued at $29,524,100) was not included in the 1970 data.

Industrial fishery products. . . . .The 1970 production of industrial fishery products by 127 plants in the United States, American Samoa and Puerto Rico was valued at $100 million--an increase of $15.5 million compared with 1969.

Marine animal scrap and meal:--The 1970 production of 276,962 tons was 10 percent over the 1969 production and the largest since 1962. Menhaden meal (186,820 tons) accounted for 67 percent of the total meal production. Fishing for menhaden in the Atlantic was much better in 1970 than in 1969 and landings at Gulf ports established a new record. Total landings of menhaden were about 1.8 billion pounds--about 17 percent above those of the previous year.

The total supply of fish meal for use in this country in 1970 (imports plus domestic production) was 528,454 tons. Imports (251,492 tons) were off 30 percent from the 358,350 tons imported in 1969, and for the first time since 1962, imports accounted for less than 50 percent of the total supply.

Marine animal oil:--The domestic production of marine animal oil amounted to 194.4 million pounds--15 percent above the 1969 yield of 169.8 million pounds. Menhaden oil totaled 174.9 million pounds in 1970 and accounted for 90 percent of the total production. The United States exports of domestic fish oils were 158.8 million pounds in 1970--somewhat less than the 196.1 million pounds exported in 1969 but still well above the 1964-68 average. The high exports in the past two years were in response to a heavy European demand for all oils.

Fish solubles:--The 1970 production of fish solubles was 97,160 tons--about 19 percent above the 81,692 tons produced in 1969. Nearly 77 percent of the total yield came from menhaden.

Other industrial products:--Products from oyster shells were valued at $3.4 million compared with $3.3 million in the previous year. Other industrial items produced in 1970 and valued at $26.6 million were agar-agar, animal feeds, fish feed pellets, Irish moss extracts, kelp products, leather products, liquid fertilizer, colored chips, pearl essence, crab and clam shells and mussel shell lime. These products were valued at $27.2 million in 1969.

Packaged fish. . . . .Production of fresh and frozen raw fillets and steaks during 1970 in the United States, excluding Hawaii and Alaska was 133.8 million pounds valued at $75.4 million to the processors. Compared with 1969, this was a decrease of 2.9 million pounds but represented an increase of $5.8 million in value.

Total production of groundfish fillets and steaks (cod, haddock, hake, cusk, pollock, and Atlantic ocean perch) amounted to 42.9 million pounds--4.4 million less than in 1969. An estimated 386.3 million pounds of fish were required for the 1970 total production of packaged fish fillets and steaks.

Fish sticks and portions. . . . .The 1970 production was a record 349.4 million pounds valued at an all time high of $155.3 million. Compared with 1969, this was an increase of 18.9 million pounds or 6 percent in volume and $20.3 million or 15 percent in value. Fish stick production increased from 113.4 million pounds in 1969 to 115.9 million pounds in 1970. Fish portions rose from 217.1 million pounds to 233.4 million pounds during the same period.

Breaded shrimp. . . . .About 103.1 million pounds of breaded shrimp, valued at $109.0 million, were produced in 1970. The volume produced was 2.5 million pounds under the 1969 record production of 105.6 million pounds.

Frozen fishery trade. . . . .The 1970 production of frozen round, dressed, and drawn fish, fillets, and packaged shellfish by plants reporting to the Service amounted to 388.3 million pounds. This was an increase of 10 percent compared with 1969 and 11 percent compared with the 1964-68 average of 350.1 million pounds. Leading edible items frozen were: shrimp products, a record 137.2 million pounds; dressed and filleted salmon, 23.2; dressed and filleted halibut, 20.2; headed and gutted whiting and whiting fillets, 15.7; and ocean perch fillets, 15.4 million pounds. Bait and animal food from both salt- and fresh-water amounted to 64.8 million pounds. An estimated 581.8 million pounds of fish and shellfish (round weight) were required for the total production of frozen fishery products.

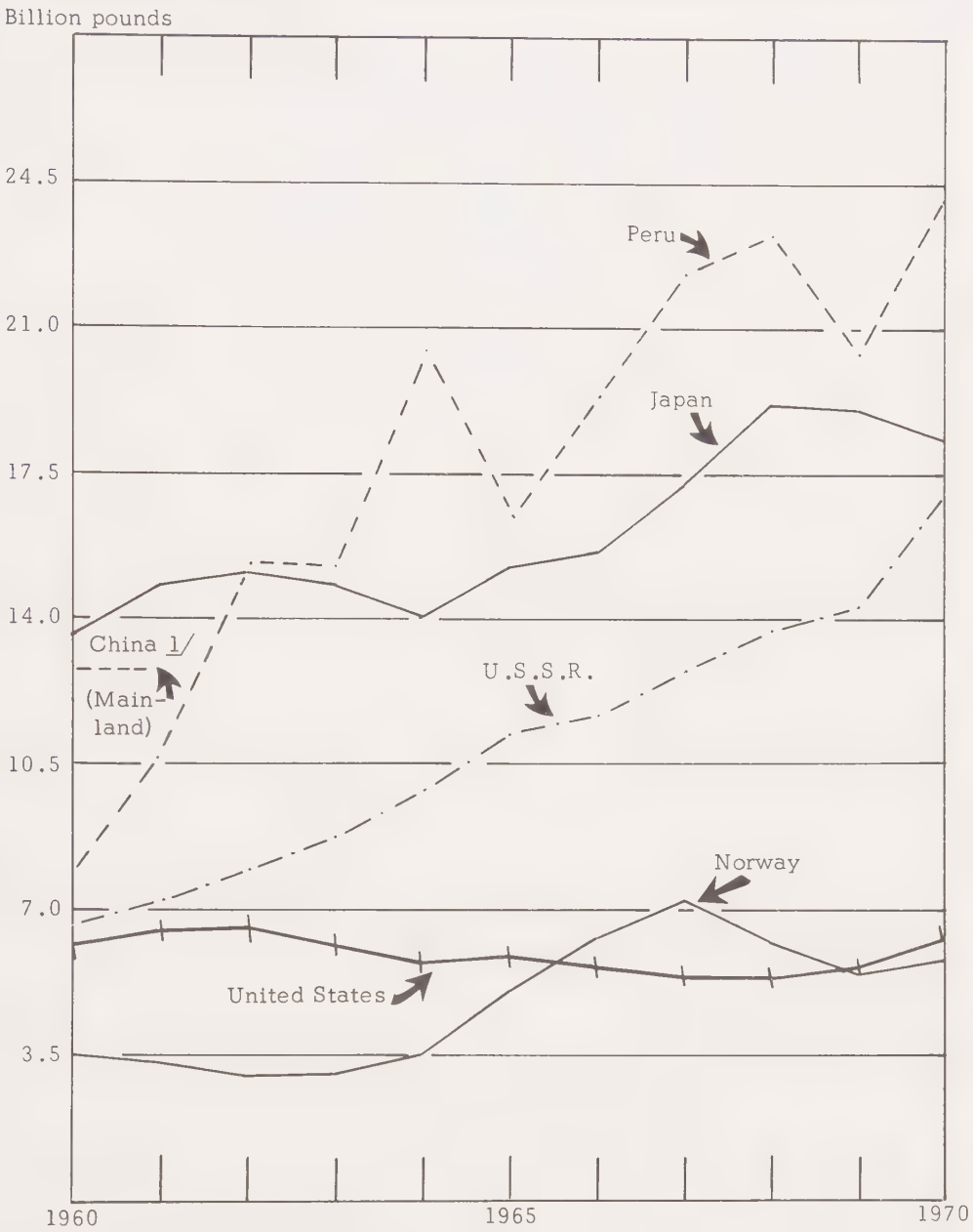
Record cold storage holdings were established for flounder fillets, 16.1 million pounds in December 1970; dressed salmon, 24.9 million pounds in September 1970; and shrimp products, 78.7 million pounds in December 1970.

FOREIGN TRADE IN FISHERY PRODUCTS

Foreign trade in fishery products. . . . .United States foreign trade in fishery products was worth a record $1.2 billion in 1970--an increase of $208 million compared with 1969. Imports for consumption were valued at $1,040 million--a gain of $195.3 million, while exports increased from $104.5 million in 1969 to a record $117.7 million in 1970.

There were record imports in 1970 of groundfish and ocean perch fillets (including blocks and slabs), other type fillets, albacore and other frozen tuna, sea scallop meats, and shrimp products. Imports of fish meal decreased from 358.4 thousand tons to 251.5 thousand tons. Exports of fresh and frozen shrimp and canned shrimp established new records. However, exports of fresh and frozen salmon, canned mackerel, canned sardines, canned squid, and unclassified fish oils were well below the 1969 volume.

WORLD CATCH BY LEADING COUNTRIES, 1960-70



1/ Unofficial estimate referring to 1960.
Note:--Live weight basis.

U.S. CATCH

CATCH OF CERTAIN SPECIES, 1969-70 1/

Species	1969		1970		5-year average 1964-68
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Alewives:					
Atlantic and Gulf. . .	57,700	1,100	32,100	600	56,609
Great Lakes.	27,500	300	33,500	400	24,770
Anchovies, California. .	135,300	1,400	190,900	2,100	34,734
Bluefish	5,100	600	6,900	700	4,964
Bonito	17,100	800	10,300	700	12,810
Butterfish	4,700	600	4,100	700	5,646
Cod, Atlantic.	58,100	4,600	52,900	5,700	42,471
Croaker.	6,100	700	8,400	1,100	3,296
Cusk	900	56	1,300	100	1,956
Flounders, Atlantic and Gulf:					
Blackback.	22,800	2,800	24,200	3,200	24,021
Fluke.	4,400	1,600	5,700	1,900	8,942
Yellowtail	71,100	9,000	72,700	10,300	71,597
Other.	19,200	2,700	19,400	3,500	18,787
Total.	117,500	16,100	122,000	18,900	123,347
Haddock.	46,200	7,700	26,900	6,000	113,739
Hake:					
Pacific.	8,800	88	8,900	85	10,814
White.	2,800	100	4,100	300	4,398
Halibut, Pacific	33,400	8,500	34,700	8,000	36,278
Herring, sea:					
Atlantic	68,500	1,200	66,800	1,200	74,765
Pacific.	14,200	500	20,700	500	28,834
Jack mackerel (California).	51,900	2,000	47,200	1,800	58,224
Mackerel:					
Atlantic	9,800	600	7,400	400	6,241
Pacific (California) .	2,400	100	800	45	8,562
Menhaden:					
Atlantic coast	392,500	5,700	582,200	8,700	579,895
Gulf	1,155,200	17,200	1,231,600	23,200	848,619
Total.	1,547,700	22,900	1,813,800	31,900	1,428,514
Mullet	31,400	2,600	31,200	2,600	37,211
Ocean perch, Atlantic. .	55,800	2,400	55,300	2,700	78,632
Pollock, Atlantic. . . .	9,300	500	8,800	700	7,826
Salmon, Pacific:					
Chinook or king. . . .	23,500	9,700	31,500	14,800	27,458
Chum or keta	18,500	2,300	50,000	6,500	49,908
Pink	113,200	15,100	119,700	16,800	121,038
Red or sockeye	71,300	20,300	154,000	34,800	85,510
Silver or coho	19,700	7,300	41,500	17,100	38,580
Total.	246,200	54,700	396,700	90,000	322,494
Sardine, Pacific	90	11	400	61	3,225
Scup or porgy.	12,400	2,200	10,600	2,600	27,504
Sea bass, Atlantic . . .	4,400	800	4,300	1,000	6,145

See footnotes at end of table.

(Continued on next page)

CATCH OF CERTAIN SPECIES, 1969-70 1/ - Continued

Species	1969		1970		5-year average 1964-68
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Sea trout, gray	10,100	900	7,400	700	4,246
Snapper, red	9,500	4,000	9,000	4,000	13,192
Striped bass, Atlantic	11,300	2,200	10,400	2,400	9,399
Swordfish, Atlantic and Gulf	400	200	600	400	1,752
Tuna:					
Albacore	47,700	10,400	56,300	14,900	45,310
Bluefin 2/	18,500	3,300	15,800	3,100	24,856
Little	40	10	300	33	51
Skipjack	52,000	7,400	83,200	13,600	85,385
Yellowfin	204,800	33,200	237,400	43,100	147,543
Unclassified	1	(3)	-	-	79
Total	323,041	54,310	393,000	74,733	303,224
Whiting	46,300	2,700	45,000	3,900	83,181
Shellfish					
Clams:					
Hard, Atlantic	15,200	12,900	15,500	13,600	15,091
Soft, Atlantic	12,800	5,300	12,500	5,700	8,702
Surf	47,500	5,700	61,200	7,100	42,590
Crabs:					
Blue, hard	129,900	12,200	142,400	10,000	152,567
Dungeness	49,100	10,500	58,700	13,900	36,816
King	55,800	16,700	51,900	13,800	117,470
Snow	11,200	1,100	15,500	1,700	676
Lobsters:					
Northern	31,600	26,600	32,700	31,500	30,010
Spiny	7,900	5,800	10,200	7,700	5,604
Oysters	51,900	28,200	50,600	28,200	59,806
Scallops, sea	9,700	9,800	7,400	9,300	15,404
Shrimp: (heads-on)					
New England States	28,900	3,500	23,600	4,700	4,125
South Atlantic States	27,400	16,400	20,900	11,400	23,563
Gulf States	198,400	99,500	230,700	108,200	196,651
Pacific Coast States	62,400	3,500	92,900	5,400	35,979
Total	317,100	122,900	368,100	129,700	260,318
Squid, California	20,800	500	19,900	400	19,450
Other fish, shellfish, etc.	556,069	62,835	570,600	62,276	-
Grand total	4,292,500	518,500	4,883,600	601,900	-

1/ Does not include landings by American flag vessels at Puerto Rico or other ports outside continental United States and Hawaii. Does not include production of artificially cultivated fish and shellfish. 2/ Includes data on the catch of bigeye tuna in Hawaii.
3/ Less than $500.

Note:--Statistics on the catch are shown in live (round) weight of all items except univalve and bivalve mollusks (clams, oysters, scallops, etc.) which are shown in weight of meats, excluding the shell. Data are preliminary.

CATCH OF FISH AND SHELLFISH, 1926-70

Year	Catch for human food	Catch for industrial products 1/	Total		Average price per pound
	Million pounds	Million pounds	Million pounds	Million dollars	Cents
1926	2,198	673	2,871	(2)	(2)
1927	2,172	634	2,806	(2)	(2)
1928	2,370	691	3,061	(2)	(2)
1929	2,601	890	3,491	(2)	(2)
1930	2,478	746	3,224	109	3.39
1931	2,129	501	2,630	77	2.94
1932	1,864	748	2,612	56	2.13
1933	2,086	911	2,997	(2)	(2)
1934	2,434	1,670	4,104	(2)	(2)
1935	2,583	1,552	4,135	(2)	(2)
1936	2,854	1,972	4,826	(2)	(2)
1937	2,703	1,650	4,353	101	2.32
1938	2,639	1,615	4,254	94	2.20
1939	2,713	1,732	4,445	97	2.17
1940	2,675	1,385	4,060	99	2.44
1941	3,062	1,838	4,900	129	2.63
1942	2,683	1,192	3,875	170	4.40
1943	2,737	1,425	4,162	204	4.90
1944	2,865	1,668	4,533	213	4.70
1945	3,167	1,431	4,598	270	5.87
1946	3,049	1,418	4,467	313	7.01
1947	3,020	1,329	4,349	312	7.16
1948	3,146	1,367	4,513	371	8.22
1949	3,305	1,499	4,804	343	7.13
1950	* 3,307	1,594	4,901	347	7.09
1951	3,048	1,385	4,433	365	8.23
1952	2,778	1,654	4,432	364	8.20
1953	2,519	1,968	4,487	356	7.94
1954	2,705	2,057	4,762	359	7.55
1955	2,579	2,230	4,809	339	7.05
1956	2,690	2,578	5,268	372	7.06
1957	2,475	2,314	4,789	354	7.39
1958	2,651	2,096	4,747	373	7.86
1959	2,369	2,753	5,122	346	6.76
1960	2,498	2,444	4,942	354	7.15
1961	2,490	2,697	5,187	362	6.98
1962	2,540	* 2,814	* 5,354	396	7.40
1963	2,556	2,291	4,847	377	7.78
1964	2,497	2,044	4,541	389	8.57
1965	2,587	2,190	4,777	446	9.34
1966	2,572	1,794	4,366	472	10.81
1967	2,368	1,687	4,055	440	10.84
1968	2,296	1,820	4,116	472	11.46
1969	2,246	2,046	4,292	518	12.08
1970	2,482	2,402	4,884	*602	* 12.32

1/ Processed into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food.

2/ Not available.

* Record

Note:--Does not include landings by American flag vessels at Puerto Rico or other ports outside continental United States and Hawaii. Does not include production of artificially cultivated fish and shellfish. Hawaiian data has been included since 1946.

CATCH BY STATES, 1969-70 1/

State	1969		1970		Record catch	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama	2/ 34,200	2/ 11,100	2/ 32,700	2/ 10,800	1966	35,827
Alaska	346,800	71,100	528,600	89,700	1936	932,341
Arizona	(3)	(3)	(3)	(3)	-	(4)
Arkansas	(3)	(3)	(3)	(3)	-	(4)
California	575,900	62,100	694,200	84,500	1936	1,760,183
Connecticut	4,900	1,800	5,600	2,100	1930	88,012
Delaware	600	200	3,500	500	1953	367,500
Florida	181,400	40,900	187,700	40,200	1938	241,443
Georgia	15,400	6,300	14,400	4,200	1927	47,607
Hawaii	9,700	3,400	11,000	4,000	1954	20,610
Idaho	(3)	(3)	(3)	(3)	-	(4)
Illinois	(3)	(3)	(3)	(3)	-	(4)
Indiana	(3)	(3)	(3)	(3)	-	(4)
Iowa	(3)	(3)	(3)	(3)	-	(4)
Kansas	(3)	(3)	(3)	(3)	-	(4)
Kentucky	(3)	(3)	(3)	(3)	-	(4)
Louisiana	2/1,016,500	2/ 56,700	2/1,109,600	2/ 62,000	1970	1,109,600
Maine	191,300	27,500	158,800	30,700	1950	356,266
Maryland	72,000	17,900	77,900	18,000	1890	141,607
Massachusetts	280,000	41,900	286,200	45,800	1948	649,696
Michigan	20,800	2,700	18,900	2,600	1930	35,580
Minnesota	(3)	(3)	(3)	(3)	-	(4)
Mississippi	2/310,000	2/ 10,900	2/301,300	2/ 11,900	1961	391,689
Missouri	(3)	(3)	(3)	(3)	-	(4)
Montana	(3)	(3)	(3)	(3)	-	(4)
Nebraska	(3)	(3)	(3)	(3)	-	(4)
New Hampshire	1,500	900	1,500	1,000	-	(4)
New Jersey	92,500	10,900	95,500	12,600	1956	540,060
New Mexico	(3)	(3)	(3)	(3)	-	(4)
New York	2/ 39,900	2/ 13,600	2/ 32,900	2/ 16,200	1880	2/335,000
North Carolina	219,000	12,100	173,400	9,400	1959	342,612
North Dakota	(3)	(3)	(3)	(3)	-	(4)
Ohio	2/ 9,600	2/ 900	2/ 8,400	2/ 1,000	1936	31,083
Oklahoma	(3)	(3)	(3)	(3)	-	(4)
Oregon	82,600	16,000	98,300	22,800	1970	98,300
Pennsylvania	(3)	(3)	(3)	(3)	-	(4)
Rhode Island	81,700	5,200	78,400	9,700	1889	128,056
South Carolina	20,900	5,400	16,000	4,200	1965	26,611
South Dakota	(3)	(3)	(3)	(3)	-	(4)
Tennessee	(3)	(3)	(3)	(3)	-	(4)
Texas	2/160,800	2/ 46,900	2/148,200	2/ 53,500	1960	237,684
Utah	(3)	(3)	(3)	(3)	-	(4)
Virginia	277,700	17,800	583,200	26,900	1970	583,200
Washington	142,400	26,200	132,600	31,100	1941	197,253
Wisconsin	41,800	2,400	48,500	2,500	-	(4)
---	5/ 62,600	5/ 5,700	5/ 36,300	5/ 4,000	-	-
Total	4,292,500	518,500	4,883,600	601,900	-	-

1/ Does not include landings by American flag vessels at Puerto Rico or other ports outside continental United States and Hawaii. Does not include production of artificially cultivated fish and shellfish. 2/ Catch in interior waters estimated. 3/ Data not available. 4/ Not determined. 5/ Data by State were not available.

Note:--Statistics on the catch are shown in live (round) weight of all items except univalve and bivalve mollusks (clams, conchs, oysters, scallops, etc.) which are shown in weight of meats, excluding the shell. Data are preliminary.

U.S. CATCH

Foreign vessels, principally Russian and Japanese, are taking more fish and shellfish on the high seas off the United States. However, the United States catch on the high seas off foreign coasts declined from 464 million pounds in 1960 to 404 million pounds in 1970. The decline resulted from a smaller catch of groundfish off Canada. Groundfish (cod, cusk, haddock, ocean perch, pollock, and white hake) totaled only 29 million pounds in 1970--114 million pounds less than in 1960. The catch of tuna off Central and South America was 77.5 million pounds more than in 1960.

DOMESTIC CATCH FROM WATERS OFF THE UNITED STATES AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1970 1/

Area and species	Waters off U.S. coasts	High seas off foreign coasts	Total
	Thousand pounds	Thousand pounds	Thousand pounds
Atlantic and Gulf States:			
New England:			
Cod	49,563	2,737	52,300
Cusk	1,202	98	1,300
Flounders	102,762	338	103,100
Haddock	22,306	4,494	26,800
Hake, white	3,977	123	4,100
Halibut	158	42	200
Ocean perch	34,269	21,031	55,300
Pollock	8,051	749	8,800
Whiting	40,198	2	40,200
Wolffish	428	172	600
Unclassified	237,760	40	237,800
Total	500,674	29,826	530,500
Middle Atlantic, unclassified, total	131,300	-	131,300
Chesapeake, unclassified, total	661,200	-	661,200
South Atlantic, unclassified, total	279,400	-	279,400
Gulf:			
Flounders	1,892	8	1,900
Groupers	6,473	427	6,900
Snapper, red	7,467	1,933	9,400
Warsaw	155	45	200
Lobster, spiny	824	3,176	4,000
Shrimp	216,110	14,590	230,700
Unclassified	1,434,390	10	1,434,400
Total	1,667,311	20,189	1,687,500
Total Atlantic and Gulf States	3,239,885	50,015	3,289,900

(Continued on next page)

DOMESTIC CATCH FROM WATERS OFF THE UNITED STATES
AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1970 1/ - Continued

Area and species	Waters off U.S. coasts	High seas off foreign coasts	Total
	Thousand pounds	Thousand pounds	Thousand pounds
Pacific Coast States:			
Alaska, Washington, and Oregon:			
Bottomfish (Washington and Oregon) 2/	34,131	26,969	61,100
Halibut	33,621	1,079	34,700
Salmon	390,054	46	390,100
Tuna:			
Skipjack	-	400	400
Yellowfin	-	4,700	4,700
Unclassified	268,428	172	268,600
Total	726,234	33,366	759,600
California:			
Bonito	9,858	342	10,200
Groupers	71	129	200
Rockfishes	9,391	109	9,500
Sculpin	31	69	100
Sea bass:			
Black	53	147	200
White	368	732	1,100
Sharks, unclassified	371	29	400
Swordfish	781	19	800
Tuna:			
Albacore	27,976	2,124	30,100
Bluefin	319	8,581	8,900
Skipjack	463	75,837	76,300
Yellowfin	139	232,061	232,200
Total	28,897	318,603	347,500
Yellowtail	30	170	200
Unclassified	323,995	5	324,000
Total	373,846	320,354	694,200
Total Pacific Coast States	1,100,080	353,720	1,453,800
Great Lakes and Mississippi River States, unclassified, total	128,900	-	128,900
Hawaii, unclassified, total	11,000	-	11,000
Grand total	4,479,865	403,735	4,883,600

1/ Does not include landings by American Flag vessels at Puerto Rico or other ports outside continental United States and Hawaii.

2/ Principally cod, flounders (including sole), lingcod, ocean perch, rockfishes, and sablefish.

U.S. CATCH

DISPOSTTION OF CATCH, 1969-70

End use	1969		1970	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food.	1,392	32.5	1,402	28.7
For bait and animal food. .	117	2.7	104	2.1
Total.	1,509	35.2	1,506	30.8
Canned:				
For human food.	784	18.3	1,008	20.6
For bait and animal food. .	151	3.5	164	3.4
Total.	935	21.8	1,172	24.0
Cured	70	1.6	72	1.5
Reduction to meal, oil, etc..	1,778	41.4	2,134	43.7
Grand total.	4,292	100.0	4,884	100.0

Note:--Data are preliminary.

MONTHLY CATCH AND UTILIZATION OF FISH AND SHELLFISH, 1970

Month	Catch for human food		Catch for industrial products 1/		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January	104	4.2	46	1.9	150	3.1
February.	145	5.9	27	1.1	172	3.6
March	161	6.5	40	1.7	201	4.1
April	159	6.4	77	3.2	236	4.8
May	218	8.8	270	11.2	488	10.0
June.	243	9.8	454	18.9	697	14.3
July.	393	15.8	478	20.0	871	17.8
August.	313	12.6	360	15.0	673	13.8
September	248	10.0	271	11.3	519	10.6
October	212	8.5	202	8.4	414	8.5
November.	155	6.2	111	4.6	266	5.4
December.	131	5.3	66	2.7	197	4.0
Total	2,482	100.0	2,402	100.0	4,884	100.0

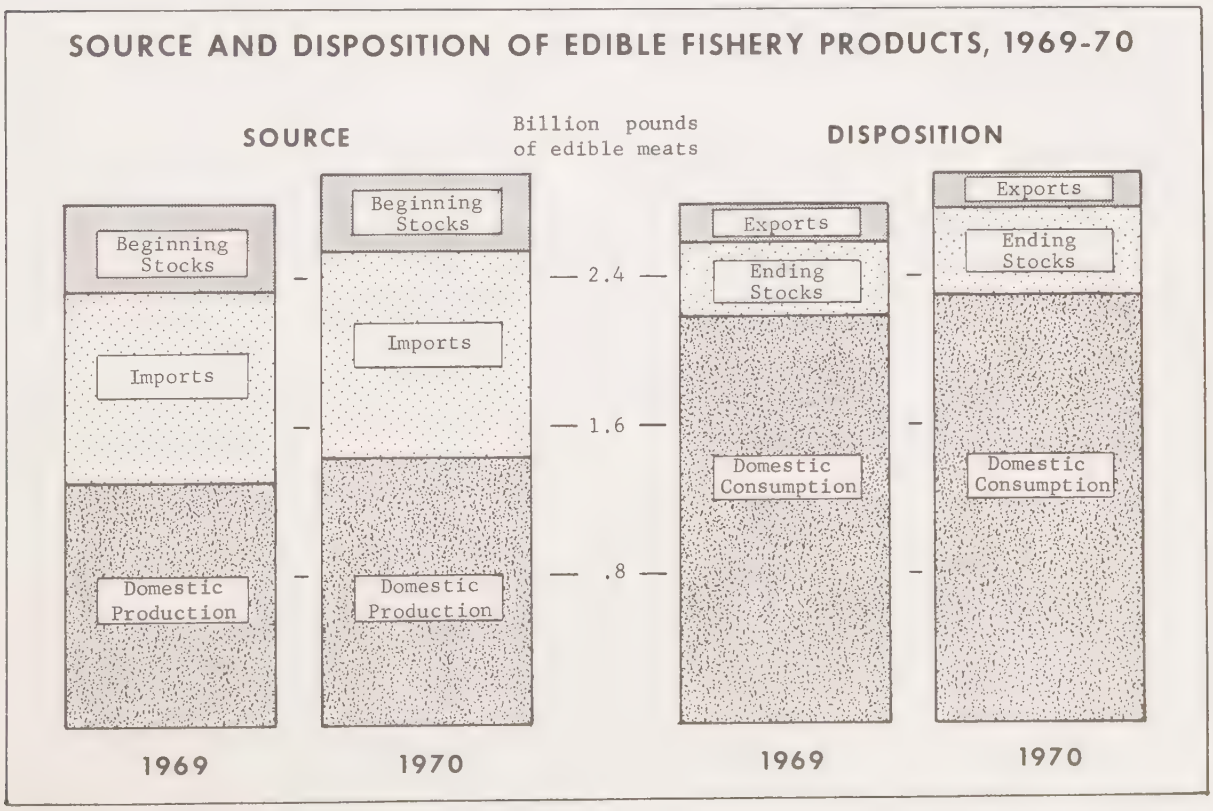
1/ Manufactured into meal, oil, fish solubles, shell products, and used as bait and animal food.

LANDINGS AT CERTAIN U.S. PORTS, 1970

Port (by volume)	Thousand pounds	Port (by value)	Thousand dollars
San Pedro, Calif.	498,300	San Pedro, Calif.	*52,900
Cameron, La.	354,400	New Bedford, Mass.	19,600
Pascagoula-Moss Point, Miss.	241,300	Brownsville-Port Isabel, Texas.	19,200
Dulac-Chauvin, La.	209,000	Kodiak, Alaska.	18,700
Empire, La.	152,500	San Diego, Calif.	12,400
Kodiak, Alaska.	145,300	Dulac-Chauvin, La.	11,100
Morgan City, La.	141,400	Aransas Pass-Rockport, Texas.	11,000
New Bedford, Mass.	111,300	Cameron, La.	10,800
Gloucester, Mass.	92,400	Freeport, Texas	9,200
Beaufort-Morehead City, N.C.	81,300	Gloucester, Mass.	8,400
San Diego, Calif.	68,500	Morgan City, La.	8,000
Point Judith, R.I.	59,400	Pascagoula-Moss Point, Miss.	7,800
Southport, N.C.	38,400	Empire, La.	7,200
Rockland, Maine	33,100	Boston, Mass.	6,100
Brownsville-Port Isabel, Texas.	32,700	Point Judith, R.I.	3,900
Boston, Mass.	32,200	Newport, R.I.	3,800

* Record.

Note:--Cape Charles and Reedville, Va., and Intercoastal City, La., were not listed in the above table to avoid the disclosure of private enterprise. Data are based on latest available information and are not intended to show the relative position of all ports in the United States. Record landings of 848 million pounds of fish and shellfish were made in the San Pedro area in 1950.



CATCH BY REGIONS

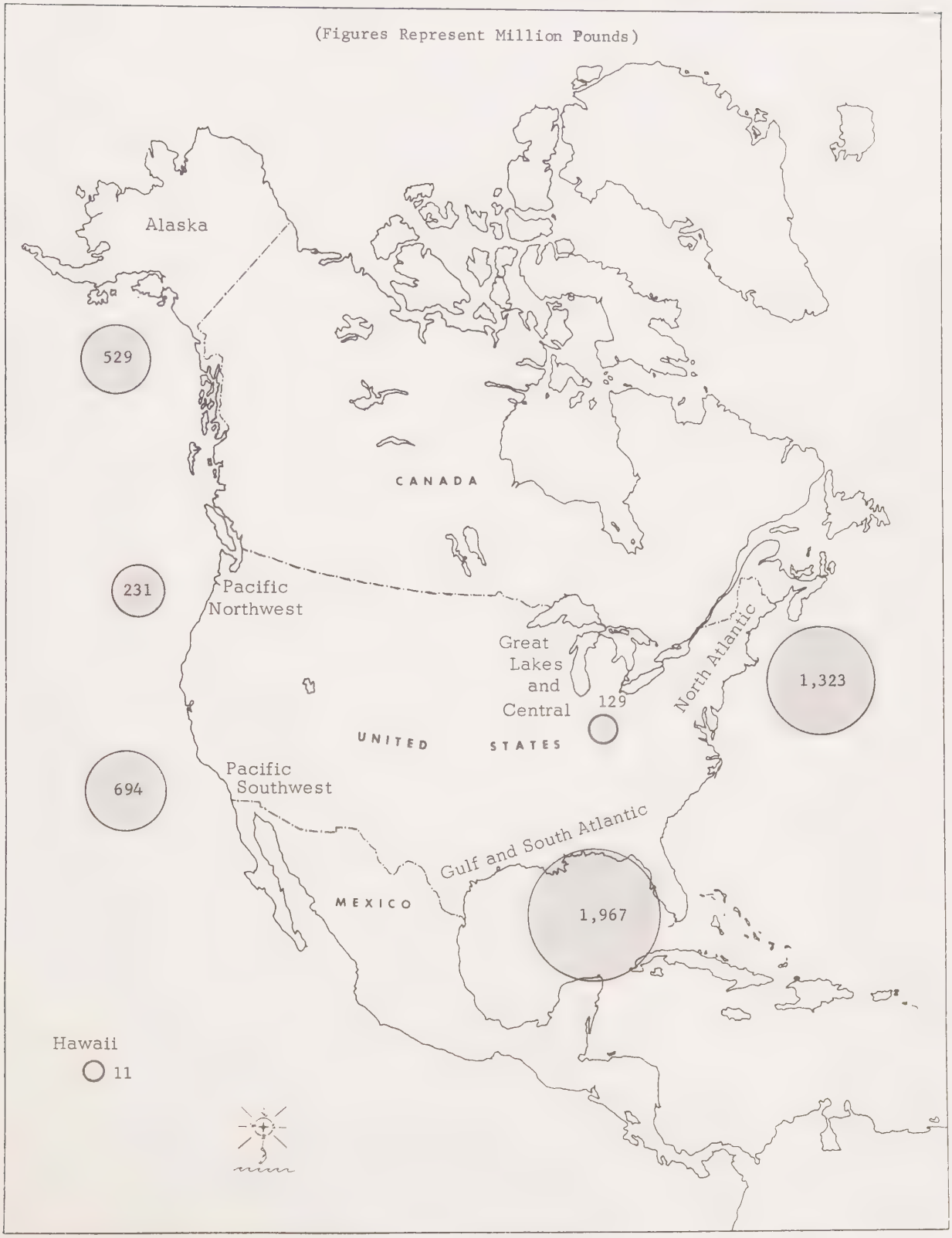
Landings in the Gulf States accounted for 35 percent of the total United States catch in 1970 followed by California, 14 percent; the New England and Middle Atlantic States, 13 percent; Chesapeake States, 13 percent; and Alaska, 11 percent. The remainder of the catch was landed in the South Atlantic States, Washington, Oregon, Hawaii, and inland waters.

VOLUME OF THE CATCH BY REGIONS, VARIOUS YEARS, 1940-70
(Million pounds)

Region	1940	1950	1960	1969	1970
New England and Middle Atlantic:					
Quantity	982	1,498	1,636	692	662
Percent	24	31	33	16	13
Chesapeake:					
Quantity	321	381	435	350	661
Percent	8	8	9	8	13
South Atlantic:					
Quantity	325	261	379	319	279
Percent	8	5	8	8	6
Gulf:					
Quantity	250	571	1,266	1,622	1,688
Percent	6	12	26	38	35
Alaska:					
Quantity	564	482	358	347	529
Percent	14	10	7	8	11
Washington and Oregon:					
Quantity	166	177	162	225	231
Percent	4	4	3	5	5
California:					
Quantity	1,290	1,338	541	576	694
Percent	32	27	11	13	14
Great Lakes and Mississippi River:					
Quantity	162	177	154	151	129
Percent	4	3	3	4	3
Hawaii:					
Quantity	(1)	16	11	10	11
Percent	-	-	-	-	-
Total quantity	4,060	4,901	4,942	4,292	4,884

1/ Not available.

VOLUME OF CATCH BY REGIONS, 1970



VALUE BY REGIONS

States in the Gulf of Mexico accounted for 27 percent of the total value of the United States catch in 1970 followed by the New England and Middle Atlantic States, 20 percent; Alaska, 15 percent; California, 14 percent; and Washington and Oregon, 9 percent. The remainder was paid to fishermen in the Chesapeake States, South Atlantic States, Hawaii, and inland States.

VALUE OF THE CATCH BY REGIONS, VARIOUS YEARS, 1940-70

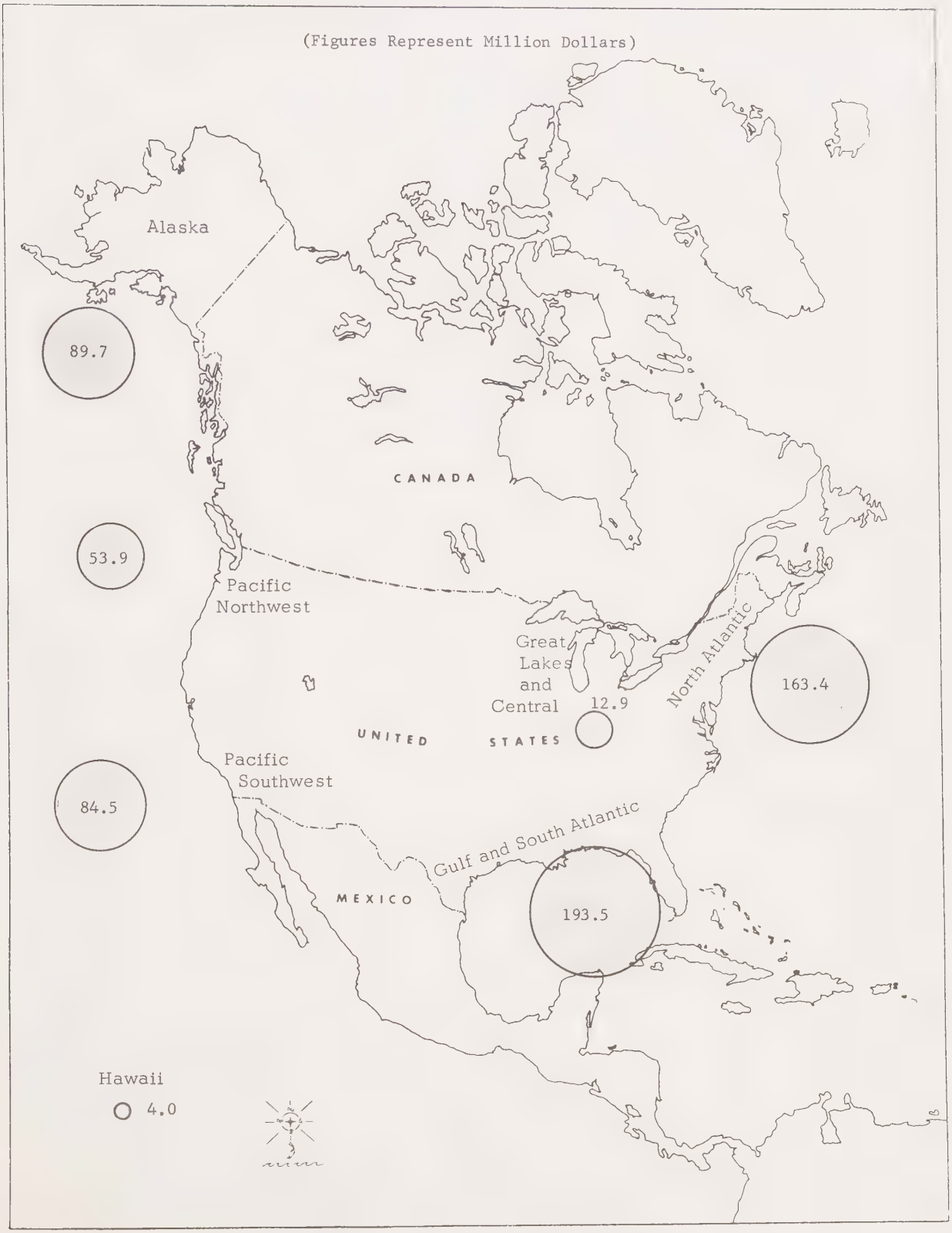
(Million dollars)

Region	1940	1950	1960	1969	1970
New England and Middle Atlantic:					
Value	28.1	89.4	83.2	101.9	118.5
Percent	28	26	23	19	20
Chesapeake:					
Value	7.5	25.0	34.9	35.7	44.9
Percent	8	7	10	7	7
South Atlantic:					
Value	4.1	18.9	20.2	35.6	28.9
Percent	4	5	6	7	5
Gulf:					
Value	10.6	50.4	85.5	152.5	164.6
Percent	11	15	24	29	27
Alaska:					
Value	1/10.6	1/31.4	40.9	71.1	89.7
Percent	11	9	12	14	15
Washington and Oregon:					
Value	9.4	26.2	21.6	42.2	53.9
Percent	9	8	6	8	9
California:					
Value	20.2	81.6	49.6	62.1	84.5
Percent	20	23	14	12	14
Great Lakes and Mississippi River:					
Value	8.5	21.0	15.0	14.0	12.9
Percent	9	6	4	3	2
Hawaii:					
Value	(2)	3.5	2.7	3.4	4.0
Percent	-	1	1	1	1
Total value	99.0	347.4	353.6	518.5	601.9

1/ Does not include types of compensation (food, use of boats, gear, etc.) that were added to the value in later years.

2/ Not available.

VALUE OF CATCH BY REGIONS, 1970



U.S. CATCH

RELATIVE VOLUME OF THE CATCH, BY SPECIES, 1968

SPECIES	QUANTITY	PERCENT OF TOTAL	RECORD CATCH AND YEAR	
	THOUSAND POUNDS	PERCENT	YEAR	THOUSAND POUNDS
MENHADEN	1,375,100	33.1	1962	2,347,944
SALMON	329,630	7.9	1936	643,700
SHRIMP	299,289	7.2	1967	307,787
TUNA	293,868	7.1	1950	391,454
CRABS	254,523	6.1	1966	372,425
INDUSTRIAL FISH 1/	198,054	4.8	1965	265,438
FLOUNDERS	158,499	3.8	1965	180,121
HERRING, SEA:				
ATLANTIC	92,235	2.2	1902	200,598
PACIFIC	14,973	.4	1937	263,200
TOTAL	107,208	2.6	-	-
ALEWIVES	84,578	2.0	1967	101,127
WHITING	79,148	1.9	1957	133,041
HADDOCK	70,643	1.7	1929	293,809
CLAMS	67,246	1.6	1966	72,751
OYSTERS	61,886	1.5	2/1908	152,046
OCEAN PERCH, ATLANTIC	61,323	1.5	1951	258,320
JACK MACKEREL	55,909	1.3	1952	146,522
COD:				
ATLANTIC	49,217	1.2	1880	294,351
PACIFIC	5,922	.1	1915	32,681
TOTAL	55,139	1.3	-	-
CATFISH AND BULLHEADS	32,915	.8	1963	38,614
LOBSTERS, NORTHERN	32,558	.8	1968	32,558
ANCHOVIES	31,442	.8	1953	86,044
MULLET	30,580	.7	1902	43,385
CARP	29,579	.7	1908	43,659
SQUID	28,736	.7	1946	40,266
MACKERELS	28,725	.7	(3)	(3)
HALIBUT, PACIFIC	25,740	.6	1915	66,696
ROCKFISHES	25,423	.6	1945	57,686
BUFFALOFISH	19,095	.5	1950	25,873
HERRING, THREAD	15,417	.4	1967	18,963
BONITO	15,017	.4	1967	21,268
SCUP OR PORGY	14,931	.4	1960	49,229
SCALLOPS, SEA	13,818	.3	1961	27,461
OCEAN PERCH, PACIFIC	13,466	.3	1965	28,352
SNAPPER, RED	11,788	.3	1902	23,457
CHUBS	11,184	.3	1960	16,854
STRIPED BASS	11,132	.3	1968	11,132
HAKE, PACIFIC	9,396	.2	1967	28,818
LINGCOD	8,965	.2	1944	14,262
GROUPERS	7,901	.2	1965	9,570
SHEEPSHEAD, FRESH-WATER	7,749	.2	1959	13,644
LOBSTERS, SPINY	7,476	.2	1968	7,476
POLLOCK	7,406	.2	1938	40,694
IRISH MOSS	7,300	.2	1968	7,300
SEA TROUT OR WEAKFISH, SPOTTED	6,679	.2	1936	8,800
WHALE PRODUCTS 4/	6,447	.2	(3)	(3)
SPOT	6,271	.1	1952	15,863
SHAD	6,157	.1	1890	43,000
YELLOW PERCH	6,084	.1	1934	16,282
CRAWFISH, FRESH-WATER	5,918	.1	1965	8,779
MUSSEL SHELLS	5,884	.1	1908	81,869
BLUEFISH	5,404	.1	5/1897	22,673
SMELT	4,950	.1	1958	13,303
CROAKER	4,650	.1	1945	64,668
SABLEFISH	4,471	.1	1945	17,750
KING WHITING OR "KINGFISH"	4,437	.1	1965	5,708
SEA TROUT OR WEAKFISH, GRAY	4,382	.1	1945	41,420
SWELLFISH	4,303	.1	1964	6,114
SEA BASS, BLACK (ATLANTIC)	4,160	.1	1952	21,997
UNCLASSIFIED	79,723	1.9	-	-
TOTAL	4,159,702	100.0	-	-

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD.

2/ FIRST YEAR IN WHICH AN OYSTER SURVEY WAS MADE IN ALL REGIONS.

3/ DATA NOT AVAILABLE.

4/ SINCE DATA ARE NOT AVAILABLE ON THE POUNDAGE OF WHALES TAKEN, STATISTICS ON THE YIELD OF THESE MAMMALS REPRESENT THE WEIGHT OF THE WHALE PRODUCTS WHICH INCLUDES MEAL, MEAT, AND OIL.

5/ INCLUDES DATA ON NEW ENGLAND CATCH IN 1898.

NOTE:--DOES NOT INCLUDE PRODUCTION OF ARTIFICIALLY CULTIVATED FISH AND SHELLFISH.

RELATIVE VALUE OF THE CATCH, BY SPECIES, 1968

SPECIES	VALUE	PERCENT OF TOTAL	RECORD VALUE AND YEAR	
	THOUSAND DOLLARS	PERCENT	YEAR	THOUSAND DOLLARS
SHRIMP	114,866	23.1	1966	114,866
SALMON	67,006	13.5	1966	73,595
TUNA	47,455	9.5	1950	61,342
CRABS	44,433	8.9	1968	44,433
OYSTERS	32,010	6.4	1961	33,204
LOBSTERS, NORTHERN	25,452	5.1	1968	25,452
CLAMS	20,728	4.2	1968	20,728
MENHADEN	17,533	3.5	1956	28,425
FLOUNDERS	17,409	3.5	1966	20,170
SCALLOPS, SEA	14,976	3.0	1968	14,976
HADDOCK	9,292	1.9	1966	13,943
CATFISH AND BULLHEADS	7,277	1.5	1968	7,277
LOBSTERS, SPINY	5,367	1.1	1968	5,367
HALIBUT, PACIFIC	4,227	.8	1962	11,579
SNAPPER, RED	4,187	.8	1966	4,334
COD:				
ATLANTIC	3,463	.7	1948	4,742
PACIFIC	341	.1	1959	664
TOTAL	3,804	.8	-	-
WHITING	2,787	.6	1951	2,903
MACKERELS	2,783	.6	(2)	(2)
INDUSTRIAL FISH 1/	2,764	.6	1967	3,136
BUFFALOFISH	2,467	.5	1952	3,564
SCUP OR PORGY	2,383	.5	1966	3,326
OCEAN PERCH, ATLANTIC	2,377	.5	1951	12,597
MULLET	2,377	.5	1945	4,647
HERRING, SEA:				
ATLANTIC	1,934	.4	1948	3,798
PACIFIC	384	.1	1947	2,152
TOTAL	2,318	.5	-	-
STRIPED BASS	2,283	.5	1968	2,283
JACK MACKEREL	2,219	.4	1952	4,755
SEA TROUT OR WEAKFISH, SPOTTED	1,763	.4	1952	1,781
CHUBS	1,724	.3	1958	2,564
SCALLOPS, BAY	1,694	.3	1968	1,694
ROCKFISHES	1,516	.3	1945	2,648
GROUPERS	1,323	.3	1968	1,323
ALEWIVES	1,214	.2	1967	1,551
ABALONE	1,124	.2	1966	920
WHITEFISH, COMMON	1,087	.2	1948	3,784
CRAWFISH, FRESH-WATER	1,054	.2	1968	1,054
BLOODWORMS	1,051	.2	1968	1,051
CARP	1,004	.2	1951	2,007
POMPANO	997	.2	1968	997
SQUID	803	.2	1947	1,370
YELLOW PERCH	791	.2	1958	1,540
SHAD	772	.2	1945	2,680
SEA BASS, BLACK (ATLANTIC)	750	.1	1952	5,206
OCEAN PERCH, PACIFIC	727	.1	1965	1,334
BLUEFISH	719	.1	1951	760
SANDWORMS	658	.1	1968	658
BONITO	633	.1	1947	1,636
SPOT	587	.1	1964	1,014
LINGCOD	542	.1	(2)	(2)
YELLOW PIKE	515	.1	1951	2,152
DRUM, RED	485	.1	1945	728
BUTTERFISH	478	.1	1962	1,005
SWORDFISH	435	.1	1946	1,435
LAKE HERRING	426	.1	1952	1,458
CROAKER	425	.1	1945	6,958
MUSSEL SHELLS	412	.1	(2)	(2)
WHITE PERCH	411	.1	1968	411
POLLOCK	405	.1	1945	1,819
UNCLASSIFIED	9,952	2.0	-	-
TOTAL	497,257	100.0	-	-

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD.

2/ DATA NOT AVAILABLE.

NOTE:--DOES NOT INCLUDE PRODUCTION OF ARTIFICIALLY CULTIVATED FISH AND SHELLFISH.

PRIBILOF ISLANDS SEALSKINS

TAKE OF PRIBILOF ISLANDS SEALSKINS, 1956-70

Year	Skins taken		
	Male	Female	Total
	Number	Number	Number
1956	95,849	26,977	122,826
1957	46,195	47,423	93,618
1958	47,860	31,059	78,919
1959	30,176	27,634	57,810
1960	36,320	4,296	40,616
1961	82,099	13,875	95,974
1962	53,460	24,455	77,915
1963	42,278	42,976	85,254
1964	48,223	15,983	64,206
1965	41,216	9,804	51,020
1966	52,866	-	52,866
1967	55,638	10,034	65,672
1968	45,437	13,095	58,532
1969	38,805	-	38,805
1970	42,228	-	42,228

AVERAGE VALUE OF PRIBILOF ISLANDS SEALSKINS, 1957-70

Year	Dressed, dyed, machined, and finished				Sheared	
	Male		Female		Female	
	Spring sale	Fall sale	Spring sale	Fall sale	Spring sale	Fall sale
	(average value per skin)					
1957	$91.56	$68.90	-	-	-	-
1958	71.27	86.14	-	-	-	-
1959	99.75	103.23	-	-	-	-
1960	101.66	104.35	-	-	-	$36.05
1961	87.94	86.69	-	-	$11.99	41.05
1962	106.42	107.53	-	-	44.33	48.40
1963	122.52	1/111.72	-	(1)	43.09	40.63
1964	105.45	85.56	$71.16	$64.34	48.82	59.65
1965	116.36	2/103.78	89.21	(2)	47.68	60.80
1966	3/127.99	4/105.93	(3)	(4)	77.22	62.85
1967	5/ 90.30	6/ 80.22	(5)	(6)	48.86	82.43
1968	113.48	91.36	98.71	64.49	50.51	54.88
1969	104.55	76.02	69.40	63.11	46.25	43.98
1970	79.27	82.54	71.23	73.86	33.92	40.37

1/ A total of 4,668 female skins were sold with the male skins. 2/ A total of 1,870 female skins were sold with the male skins. 3/ A total of 2,537 female skins were sold with the male skins. 4/ A total of 3,395 female skins were sold with the male skins. 5/ A total of 3,073 female skins were sold with the male skins. 6/ A total of 3,118 female skins were sold with the male skins. Note:--The skins sold were taken several years prior to the date of sale.

WHALING

WHALE CATCH, 1970

Month	Fin	Gray	Sei	Sperm	Total
	Number	Number	Number	Number	Number
January	-	-	-	1/ 1	1
March	-	-	-	1/ 9	9
May	-	-	-	1/ 11	11
June	2	-	1	-	3
July	1	-	3	-	4
August	2	-	-	6	8
September	-	-	-	1/ 4	4
October	-	-	-	1/ 9	9
November	-	-	-	1/ 19	19
December	-	-	-	1/ 5	5
Total, 1970	5	-	4	1/ 64	73
Total, 1969	31	2/ 74	10	3/ 68	183

1/ The taking of 1 sperm whale in January, 9 sperm whales in March, 6 sperm whales in May, 1 sperm whale in September, 2 sperm whales in October, 8 sperm whales in November, and 3 sperm whales in December was authorized by Special Scientific Permit No. 1970-1.

2/ The taking of 74 gray whales was authorized by Special Scientific Permit No. 1969-1.

3/ The taking of 34 sperm whales was authorized by Special Scientific Permit No. 1969-5.

WHALE PRODUCTS, 1970

Item	Quantity	Value
	Thousand pounds	Thousand dollars
Meal	663	44
Meat	483	48
Oil:		
Sperm	602	40
Whale	78	6
Total, 1970	1,826	138
Total, 1969	4,792	328

Note:--To convert pounds of oil to gallons, divide by 7.75.

World fishing, which has more than tripled in volume since 1945, dropped by a little over 1 percent in 1969--the first decrease in the postwar period. Until 1969, world catch trends had been uninterruptedly upwards ever since the postwar construction of fishing fleets. Although the 1969 catch was slightly below that of 1968, it was over double the catch (88.2 billion pounds) taken in 1960.

The United States moved up to fifth place in 1969 among the fishing nations of the world replacing Norway which had held that position since 1966. The United States had a slight increase in catch in 1969 while Norway's catch was 11 percent less. Peru was the leading fish-catching nation followed by Japan, Union of Soviet Socialist Republics, China (Mainland), and the United States.

CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1969

(Live weight basis)

Country	Billion pounds	Percent
Peru	20.33	14.6
Japan	19.01	13.7
Union of Soviet Socialist Republics	14.33	10.3
China (Mainland)	1/ 12.79	9.2
United States	2/ 5.50	4.0
Norway	5.47	3.9
Republic of South Africa	4.70	3.4
India	3.54	2.5
Spain	3.28	2.4
Canada	3.10	2.2
Denmark	2.81	2.0
Thailand	2.80	2.0
Republic of Indonesia	2.66	1.9
United Kingdom	2.39	1.7
Chile	2.37	1.7
Republic of the Philippines	2.16	1.5
Republic of Korea	1.88	1.3
France	1.64	1.2
Iceland	1.52	1.1
Federal Republic of Germany	1.44	1.0
China (Taiwan)	1.24	.9
Brazil	1.09	.8
Republic of Viet-Nam	1.02	.7
Portugal	3/ 1.01	.7
Pakistan	1.00	.7
Angola	.92	.7
Burma	.91	.7
Poland	.90	.6
Malaysia	.90	.6
Mexico	.78	.6
Italy	.78	.6
Netherlands	.71	.5
East Germany	.65	.5
North Korea	4/ .64	.5
North Viet-Nam	5/ .64	.5
Sweden	.58	.4
Morocco	.50	.4
Argentina	.45	.3
Other	10.67	7.7
Total	139.11	100.0

1/ 1960 data. 2/ Includes the weight of clam, oyster, scallop, and other univalve and bivalve mollusk shells. This weight is not included in other United States catch statistics. 3/ 1968 data. 4/ 1957 data. 5/ 1962 data.

Source:--"Yearbook of Fishery Statistics, 1969", Volume 28, Food and Agriculture Organization of the United Nations.

CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY CONTINENTS, 1964 AND 1969

(Live weight basis)

Continent	1964	1969	Increase (1969 over 1964)
	Billion pounds	Billion pounds	Percent
Asia	43.87	54.54	24
South America	24.26	24.94	3
Europe	21.49	24.73	15
Union of Soviet Socialist Republics	9.88	14.34	45
Africa	7.06	10.08	43
North and Central America	9.49	10.04	6
Oceania	.35	44	26
Total	116.40	139.11	20

CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY MAJOR FISHING AREAS, 1964 AND 1969

(Live weight basis)

Area	1964	1969	Increase (1969 over 1964)
	Billion pounds	Billion pounds	Percent
Marine areas:			
Pacific Ocean and adjacent areas	57.98	66.58	15
Atlantic Ocean and adjacent areas	39.68	50.27	27
Indian Ocean and adjacent areas	4.19	5.95	42
Total	101.85	122.80	21
Inland waters:			
Asia	10.14	11.02	9
Africa	1.76	2.21	26
Union of Soviet Socialist Republics	1.55	1.76	14
South America	.44	.66	50
Europe	.44	.44	-
North and Central America	.22	.22	-
Oceania	(1)	(1)	-
Total	14.55	16.31	12
Grand total	116.40	139.11	20

1/ Negligible.

ESTIMATED USE OF THE WORLD CATCH, 1964 AND 1969

(Live weight basis)

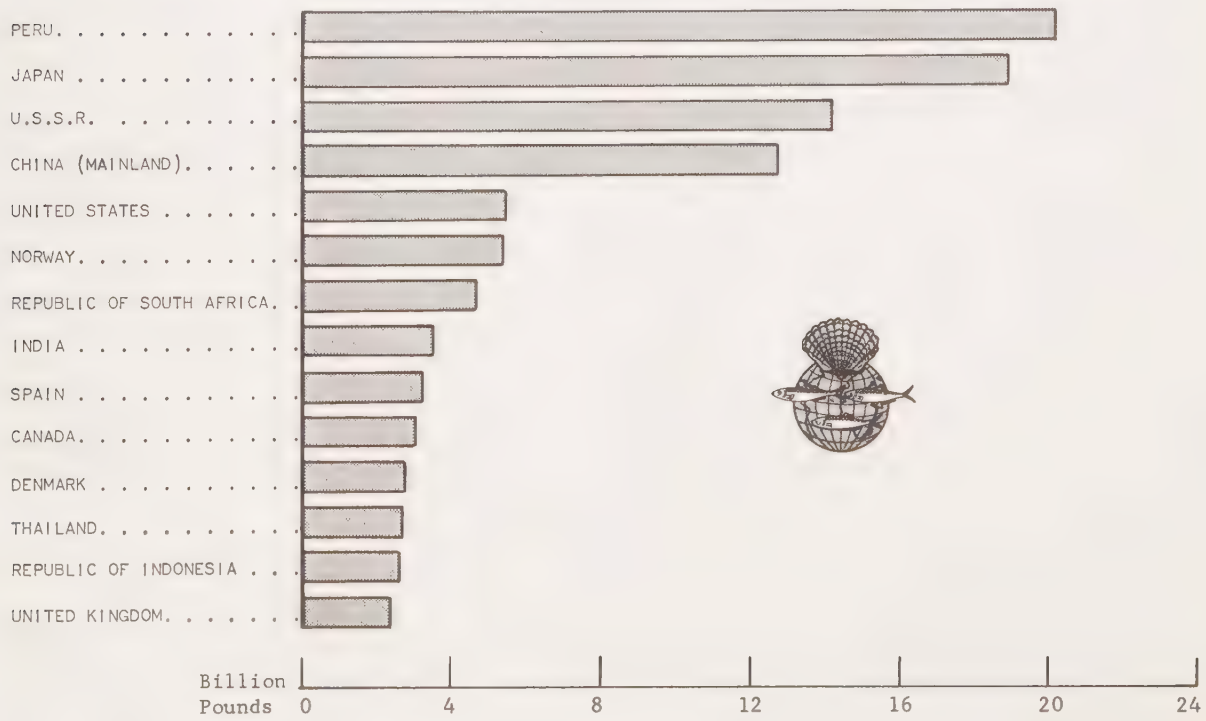
Manner used	1964	1969	Increase (1969 over 1964)
	Billion pounds	Billion pounds	Percent
Marketed fresh	39.95	39.68	-1
Frozen	11.73	18.96	62
Cured	18.56	17.86	-4
Canned	9.72	12.79	32
Reduced to meal, oil, etc.	34.24	47.62	39
Miscellaneous purposes	2.20	2.20	-
Total	116.40	139.11	20

CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY SPECIES GROUPS, 1964 AND 1969

(Live weight basis)

Species groups	1964	1969	Increase (1969 over 1964)
	Billion pounds	Billion pounds	Percent
Herring, sardines, anchovies, etc. .	40.76	40.33	- 1
Cods, hakes, haddocks, etc..	13.32	21.66	63
Miscellaneous marine fishes.	16.64	19.59	18
Fresh-water fishes	13.56	15.07	11
Mollusks	5.87	6.99	19
Redfishes, basses, congers, etc. . .	6.51	6.98	7
Mackerels, snoeks, cutlassfishes, etc..	2.60	6.69	157
Jacks, mullets, sauries, etc.. . . .	4.41	4.35	- 1
Tunas, bonitos, billfishes, etc. . .	3.04	3.69	21
Crustaceans.	2.56	3.29	29
Salmons, trouts, smelts, etc.. . . .	1.30	3.07	136
Flounders, halibuts, soles, etc. . .	2.16	2.80	30
Miscellaneous (turtles, frogs, aquatic plants, etc.)	1.44	1.80	25
Shads, milkfishes, etc..	1.15	1.39	21
Sharks, rays, chimaeras, etc.. . . .	.86	1.13	31
River eels	.08	.12	50
Sea cucumbers, sea urchins, etc. . .	.09	.11	22
Sturgeons, paddlefishes, etc.. . . .	.05	.05	-
Total	116.40	139.11	20

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1969



CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY LEADING COUNTRIES, 1954-69

(Live weight basis)

Year	Country	Million pounds
1954:		
	Japan	10,012
	United States	6,110
	China (Mainland)	5,055
	Union of Soviet Socialist Republics	4,978
	Norway	4,560
1955:		
	Japan	10,819
	United States	6,136
	China (Mainland)	5,551
	Union of Soviet Socialist Republics	5,500
	Norway	3,998
1956:		
	Japan	10,522
	United States	6,574
	China (Mainland)	5,838
	Union of Soviet Socialist Republics	5,767
	Norway	4,822
1957:		
	Japan	11,921
	China (Mainland)	6,878
	United States	6,074
	Union of Soviet Socialist Republics	5,580
	Norway	3,849
1958:		
	Japan	12,136
	China (Mainland)	8,951
	United States	5,960
	Union of Soviet Socialist Republics	5,778
	Norway	3,180
1959:		
	Japan	12,972
	China (Mainland)	11,067
	United States	6,373
	Union of Soviet Socialist Republics	6,076
	Peru	4,821
1960:		
	Japan	13,652
	China (Mainland)	12,787
	Peru	7,868
	Union of Soviet Socialist Republics	6,726
	United States	6,205
1961:		
	Japan	14,794
	China (Mainland) 1/	12,787
	Peru	11,665
	Union of Soviet Socialist Republics	7,165
	United States	6,464
1962:		
	Peru	15,339
	Japan	15,139
	China (Mainland) 1/	12,787
	Union of Soviet Socialist Republics	7,973
	United States	6,554
1963:		
	Peru	15,210
	Japan	14,768
	China (Mainland) 1/	12,787
	Union of Soviet Socialist Republics	8,768
	United States	6,122
1964:		
	Peru	20,098
	Japan	14,001
	China (Mainland) 1/	12,787
	Union of Soviet Socialist Republics	9,867
	United States	5,836
1965:		
	Peru	16,451
	Japan	15,229
	China (Mainland) 1/	12,787
	Union of Soviet Socialist Republics	11,243
	United States	6,006
1966:		
	Peru	19,376
	Japan	15,657
	China (Mainland) 1/	12,787
	Union of Soviet Socialist Republics	11,792
	Norway	6,316
1967:		
	Peru	22,341
	Japan	17,307
	China (Mainland) 1/	12,787
	Union of Soviet Socialist Republics	12,736
	Norway	7,206
1968:		
	Peru	23,193
	Japan	19,113
	Union of Soviet Socialist Republics	13,409
	China (Mainland) 1/	12,787
	Norway	6,182
1969:		
	Peru	20,334
	Japan	19,011
	Union of Soviet Socialist Republics	14,326
	China (Mainland) 1/	12,787
	United States	5,501

1/ Data are for 1960.

Note:--Data reflect latest information published in "Yearbook of Fishery Statistics", Food and Agriculture Organization of the United Nations.

CANNED PACK

The 1970 pack of canned fishery products in the United States, American Samoa, and Puerto Rico was 46.5 million standard cases (1.4 billion pounds) valued at 750.7 million to the packers. This was an increase of 6.2 million cases (192.6 million pounds) in volume and $169.8 million in value compared with 1969. There were record packs of tuna, shrimp, and animal (pet) food and larger production of salmon, crab meat, clams and clam products, and oyster items. The canned packs of tunalike fish, Maine sardines, mackerel, alewives, and squid were less than in 1969.

PACK OF CERTAIN CANNED PRODUCTS, 1969-70

Item	Pounds per case	1969	1970	Record pack	
		Thousand standard cases	Thousand standard cases	Year	Thousand standard cases
Tuna	(1)	19,975	22,086	1970	22,085
Salmon	48	2,520	3,913	1936	8,965
Sardines, Maine	23.4	1,043	806	1950	3,844
Mackerel, jack and Pacific	45	386	189	1947	1,755
Crab meat	19.5	257	269	1966	564
Shrimp	6.75	2,836	3,925	1970	3,925
Clams:					
Whole and minced	15	432	522	1967	689
Chowder and juice	30	1,889	1,905	1966	2,033
Oysters	7	286	272	1937	1,519
Animal food and bait	48	9,408	11,244	1970	11,244
Other	Various	1,282	1,369	-	-
Total	-	40,314	46,500	-	-

1/ Solid, 21 pounds; chunk, 19.5 pounds; flakes and grated, 18 pounds.

PRODUCTION OF CANNED FISHERY PRODUCTS, 1949-70

Year	For human consumption		For animal food and bait		Total
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand dollars
1949	761,776	286,565	93,239	8,939	295,504
1950	*835,812	317,082	131,303	14,253	331,335
1951	687,477	289,153	113,038	12,057	301,210
1952	646,687	289,748	168,526	16,081	305,829
1953	605,211	289,040	186,983	17,834	306,874
1954	668,588	312,023	194,041	18,995	331,018
1955	586,755	274,967	256,941	28,198	303,165
1956	655,986	316,082	321,777	33,434	349,516
1957	639,965	300,750	347,637	35,079	335,829
1958	733,519	345,616	361,083	42,966	388,582
1959	622,150	310,262	346,985	37,989	348,251
1960	660,928	342,747	422,490	44,848	387,595
1961	708,707	382,809	334,033	40,027	422,836
1962	757,302	410,183	376,408	46,683	456,866
1963	728,937	381,329	306,972	40,278	421,607
1964	742,114	391,026	353,452	45,634	436,660
1965	749,518	446,833	372,111	48,398	495,231
1966	822,369	507,841	365,178	55,867	563,708
1967	689,739	445,710	499,653	79,853	525,563
1968	782,102	499,287	484,923	84,621	583,908
1969	708,566	498,277	452,195	82,535	580,812
1970	812,602	*641,537	*540,713	*109,125	*750,662

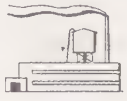
*Record.

FISH MEAL, OIL, AND SOLUBLES

A total of 276,962 tons of fish meal was produced in the United States, American Samoa, and Puerto Rico in 1970. This was an increase of 10 percent compared with the 1969 production. Menhaden meal amounted to 186,820 tons.

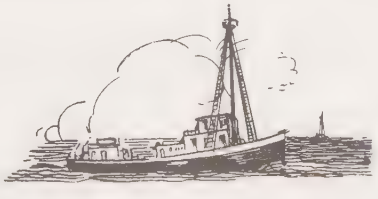
Production of marine animal oil in the United States, American Samoa, and Puerto Rico totaled 194.4 million pounds. Menhaden oil (174.9 million pounds) was 25.7 million pounds more than the production in 1969.

Production of fish solubles was 97,160 tons--15,468 tons more than the 1969 production of 81,692 tons.



PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1969-70

Product	1969	1970	Record	
			Year	Quantity
Meal:	Thousand tons	Thousand tons		Thousand tons
Menhaden	159.5	186.8	1961	247.6
Herring, sea	6.6	6.4	1937	20.5
Tuna and mackerel	26.9	26.7	1968	28.8
Unclassified	59.6	57.1	-	-
Total	252.6	277.0	1962	312.2
Oil:	Thousand pounds	Thousand pounds	Year	Thousand pounds
Menhaden	149,155	174,909	1961	235,167
Herring, sea	3,483	5,437	1937	42,172
Tuna and mackerel	4,255	3,534	1950	6,633
Unclassified	12,889	10,543	-	-
Total	169,782	194,423	1936	299,264
	Tons	Tons	Year	Tons
Fish solubles	81,692	97,160	1959	165,359



PROCESSED FISHERY PRODUCTS

FROZEN FISHERY PRODUCTS

FREEZINGS OF FISHERY PRODUCTS, 1969-70
(Thousands of pounds)

Item	1969	1970	Record	
			Year	Quantity
Blocks	1,972	4,425	1955	7,096
Fillets and steaks:				
Cod	1,397	1,368	1954	10,737
Flounder	2,478	2,075	1963	10,459
Haddock	3,382	2,337	1950	25,224
Ocean perch	15,206	15,402	1951	71,400
Other	5,394	4,217	-	-
Round, dressed, etc.:				
Halibut	18,717	19,252	1962	43,306
Salmon	15,575	22,974	1945	30,009
Whiting	15,960	15,304	1951	45,520
Other fish	66,227	81,183	-	-
Crabs	4,340	5,393	1966	11,273
Spiny lobster (tails)	513	864	1950	1,233
Shrimp	128,006	137,191	1970	137,191
Other shellfish	11,582	11,532	-	-
Bait and animal food	61,946	64,777	1965	76,204
Total fish and shellfish	352,695	388,294	1970	388,294

HOLDINGS OF FISHERY PRODUCTS, DECEMBER 31, 1969-70

(Thousands of pounds)

Item	December 31, 1969	December 31, 1970	Record	
			Month and year	Quantity
Blocks	43,018	30,560	Sept. 1969	60,254
Fillets and steaks:				
Cod	12,923	7,353	Nov. 1952	16,529
Flounder	9,279	16,082	Dec. 1970	16,082
Haddock	7,064	5,869	Oct. 1954	16,217
Ocean perch	16,353	21,253	Nov. 1956	23,934
Other	14,980	20,003	-	-
Fish sticks and portions (raw and cooked)	25,449	21,962	Dec. 1969	25,449
Round, dressed, etc.:				
Halibut	11,171	13,640	Aug. 1954	31,173
Salmon	8,538	22,365	Sept. 1970	24,865
Whiting	1,990	10,769	Sept. 1951	26,426
Other fish	22,231	23,375	-	-
Crabs	6,973	6,955	April 1966	11,254
Spiny lobster (tails)	7,544	4,267	June 1966	8,962
Shrimp	68,607	78,690	Dec. 1970	78,690
Other shellfish	6,808	9,781	-	-
Bait and animal food	11,857	12,845	June 1965	22,567
Total fish and shellfish	274,785	305,769	Oct. 1970	313,071

FISH STICKS, PORTIONS, AND BREADED SHRIMP

PRODUCTION OF FISH STICKS AND PORTIONS, 1955-70

Year	Fish sticks		Fish portions	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1955	63,046	28,886	(1)	(1)
1956	52,818	23,193	(1)	(1)
1957	53,128	23,544	(1)	(1)
1958	61,011	27,000	21,790	7,972
1959	60,378	28,611	37,147	13,138
1960	65,142	28,671	49,381	17,517
1961	69,824	30,100	59,847	22,192
1962	72,217	30,076	78,678	28,089
1963	79,302	31,590	94,644	33,980
1964	73,574	29,986	106,313	36,532
1965	82,483	35,778	140,464	56,025
1966	81,415	35,787	147,581	58,013
1967	73,909	32,559	161,313	58,518
1968	91,695	41,454	182,771	68,620
1969	113,369	51,242	217,017	83,719
1970	*115,932	*57,720	*233,441	*97,570

1/ Data not available. *Record.

Note:--A fish stick, generally cut from a block of fillets, is an elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish portion, generally cut from a block of fillets, is a piece of fish flesh generally of uniform size with a thickness of 3/8 of an inch or more, and which does not conform to the definition of a fish stick.

PRODUCTION OF BREADED SHRIMP, 1955-70

Year	Breaded	
	Thousand pounds	Thousand dollars
1955	38,991	26,907
1956	50,888	37,301
1957	51,085	37,764
1958	60,865	43,622
1959	69,764	45,314
1960	70,348	47,015
1961	73,795	55,089
1962	76,803	62,230
1963	76,216	53,527
1964	91,333	63,388
1965	98,144	77,091
1966	104,926	94,169
1967	94,230	85,319
1968	102,964	101,681
1969	*105,627	*111,960
1970	103,147	109,009

*Record.

Note:--Breaded shrimp are peeled shrimp coated with breading ingredients. The product may be identified as fantail (butterfly) and round with or without tail fins and last shell segments; and as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces, whole shrimp or a combination of both without fins or shell.

PROCESSED FISHERY PRODUCTS

PACKAGED FISH

PRODUCTION OF PACKAGED FISH, 1970

Item	Fillets		Steaks		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fresh . . .	78,929	$47,573	1,370	$1,069	80,299	$48,642
Frozen. . .	41,897	17,119	11,613	9,669	53,510	26,788
Total .	120,826	64,692	12,983	10,738	133,809	75,430

INDUSTRIAL PRODUCTS

PRODUCTION OF INDUSTRIAL PRODUCTS, 1950-70

Year	Quantity			Value			
	Fish meal	Fish solubles 1/	Marine animal oil 2/	Fish meal, oil, and solubles	Shell products	Other industrial products	Grand total
	Tons	Tons	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars
1950. .	239,954	51,863	163,229	51,188	*17,253	8,747	77,188
1951. .	209,756	50,364	136,292	46,126	15,129	8,058	69,313
1952. .	221,403	70,482	120,708	42,533	14,703	10,756	67,992
1953. .	238,851	81,494	152,206	48,387	16,592	9,393	74,372
1954. .	256,967	115,030	163,985	56,151	17,024	9,252	82,427
1955. .	264,502	110,919	186,734	57,972	14,542	10,821	83,335
1956. .	295,793	128,829	201,500	65,128	14,513	12,096	91,737
1957. .	264,085	122,615	152,615	55,429	14,289	11,663	81,381
1958. .	248,140	130,177	165,210	55,610	11,361	12,912	79,883
1959. .	306,551	*165,359	187,334	59,061	9,325	13,830	82,216
1960. .	290,137	98,929	209,143	42,689	10,074	13,832	66,595
1961. .	311,265	112,254	258,118	51,781	9,362	13,426	74,569
1962. .	*312,259	124,649	250,075	53,210	8,557	13,911	75,678
1963. .	255,907	107,402	185,827	47,842	7,000	13,759	68,601
1964. .	235,252	93,296	180,198	46,998	6,192	16,721	69,911
1965. .	254,051	94,840	195,440	56,498	5,576	20,756	82,830
1966. .	223,821	83,441	164,045	49,916	5,131	17,925	72,972
1967. .	211,189	74,675	122,398	36,738	4,933	19,356	61,027
1968. .	235,136	71,833	174,072	41,294	4,651	24,182	70,127
1969. .	252,564	81,692	169,782	53,257	4,186	*27,156	84,599
1970. .	276,962	97,160	194,423	*70,137	3,409	26,599	*100,145

1/ Includes homogenized condensed fish for 1950-63. 2/ Record production 1936 (299.3 million pounds). *Record.

U.S. IMPORTS

IMPORTANT FISHERY IMPORTS, 1969-70

Item		1969	1970	5-year average 1964-68
		Quantity	Quantity	Quantity
Edible fishery products:				
Fresh and frozen:				
Fillets:				
Groundfish and ocean perch	1,000 pounds	159,980	186,094	98,457
Blocks and slabs	do	266,748	272,657	207,627
Total	do	426,728	458,751	306,084
Other	do	120,434	136,101	87,002
Halibut	do	20,093	18,213	19,488
Salmon	do	8,425	6,424	8,720
Tuna:				
Albacore	do	198,387	205,261	172,414
Other	do	194,917	234,279	181,843
Loins and discs	do	2,173	3,228	11,502
Sea scallops (meats)	do	14,322	16,830	15,471
Lobsters:				
Common (includes fresh-cooked meat)	do	17,447	17,163	17,670
Spiny	do	44,992	37,691	37,649
Shrimp (mostly frozen, some canned and dried)	do	193,741	218,715	174,319
Canned:				
Salmon	do	2,217	2,441	1,200
Sardines:				
In oil	do	27,220	34,029	23,819
Not in oil	do	18,147	12,837	27,901
Tuna:				
In oil	do	158	153	182
Not in oil	do	72,958	72,106	59,751
Bonito and yellowtail:				
In oil	do	354	829	1,547
Not in oil	do	364	403	1,314
Crab meat	do	3,035	2,763	3,549
Lobsters:				
Common	do	2,470	2,380	2,739
Spiny	do	301	101	168
Oysters (mostly canned)	do	16,720	12,339	11,847
Nonedible fishery products:				
Scrap and meal	tons	358,350	251,492	532,873
Solubles	do	161	474	3,999
Whale oil, sperm	1,000 pounds	46,030	55,606	60,603

Note:--The data includes imports into U.S. territories and possessions and landings of tuna by foreign vessels in American Samoa.

Source:--Department of Commerce, Bureau of the Census.

U.S. IMPORTS

IMPORTS OF FISH BLOCKS AND SLABS BY SPECIES, 1966-70

Species	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Cod	132,327	116,948	176,370	192,576	194,959
Flatfish	14,002	13,212	14,098	14,990	12,105
Haddock	23,861	21,356	23,460	19,686	20,351
Pollock	8,917	9,333	8,453	7,728	20,758
Other	27,467	28,655	38,705	31,768	24,484
Total	206,574	189,504	261,086	266,748	272,657

Source:--Department of Commerce, Bureau of the Census.

IMPORTS OF FISH BLOCKS AND SLABS BY COUNTRY OF ORIGIN, 1966-70

Country of origin	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Canada	97,963	96,035	106,217	88,694	83,704
Iceland	37,885	28,701	58,168	53,877	73,345
Norway	11,934	15,414	34,612	73,021	71,820
Greenland	18,665	16,183	11,720	9,419	5,139
Denmark	16,135	11,881	21,881	17,799	15,747
Other	23,992	21,290	28,488	23,938	22,902
Total	206,574	189,504	261,086	266,748	272,657

Source:--Department of Commerce, Bureau of the Census.

IMPORTS OF GROUNDFISH AND ATLANTIC OCEAN PERCH FILLETS BY SPECIES, 1966-70 1/

Species	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Ocean perch, Atlantic	41,588	36,279	50,435	64,225	54,172
Cod	40,820	32,068	46,646	61,880	95,790
Haddock 2/	26,116	25,716	32,069	33,875	36,132
Total	108,524	94,063	129,150	159,980	186,094

1/ Does not include data on fish blocks and slabs.

2/ Includes some quantities of cusk, hake, and pollock fillets.

Source:--Department of Commerce, Bureau of the Census.

U.S. IMPORTS

IMPORTS OF SHRIMP, 1966-70

Country of origin	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
North America:					
Mexico	68,715	70,460	59,948	56,239	72,018
Panama	9,733	11,126	10,730	9,927	11,613
El Salvador	6,955	6,724	4,639	5,026	6,354
Nicaragua	3,914	5,053	5,627	7,206	6,021
Guatemala	2,481	1,924	1,315	1,693	2,948
Honduras	2,107	1,922	2,981	3,925	2,626
Costa Rica	1,779	1,679	2,351	1,344	2,494
Canada	159	654	970	644	660
British Honduras	39	385	506	297	327
Canal Zone	143	60	96	463	197
Other	3,358	3,984	5,516	4,670	5,311
Total	99,383	103,971	94,679	91,434	110,569
South America:					
Guyana	8,780	9,452	8,349	8,155	10,165
French Guiana	4,668	6,717	7,820	6,037	5,054
Ecuador	5,239	5,986	6,289	8,901	5,992
Venezuela	2,881	4,773	5,403	5,851	11,563
Colombia	2,212	2,726	3,018	3,703	4,802
Surinam	2,080	2,129	3,212	2,886	2,582
Peru	539	254	269	698	309
Chile	282	240	352	392	479
Brazil	487	176	1,619	3,707	2,065
Argentina	15	-	-	7	-
Other	-	-	23	10	567
Total	27,183	32,453	36,354	40,347	43,578
Europe:					
Spain	906	728	576	689	468
Denmark	61	61	97	93	61
United Kingdom	1	49	12	5	24
Norway	32	39	46	13	16
Iceland	-	2	48	23	5
Italy	3	-	10	-	-
Other	1,108	796	577	412	418
Total	2,111	1,675	1,366	1,235	992
Asia:					
India	16,499	18,436	22,133	34,357	33,570
Pakistan	8,191	7,457	5,475	5,409	7,125
Thailand	1,787	2,559	2,903	2,581	3,572
Iran	9,106	1,674	2,016	2,373	1,452
Japan	2,642	935	1,383	1,275	680
Republic of Korea	989	487	557	43	4
Hong Kong	42	75	40	82	38
Other	9,633	14,304	19,907	12,003	11,621
Total	48,889	45,927	54,414	58,123	58,062
Australia and Oceania	294	671	1,601	1,514	1,608
Africa	689	1,376	1,041	1,088	3,906
Grand total	178,549	186,073	189,455	193,741	218,715

Source:--Department of Commerce, Bureau of the Census.

U.S. IMPORTS

IMPORTS OF SHRIMP BY PRODUCT TYPES, 1966-70

Item	1966	1967	1968	1969 1/	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Shell-on (headless)	129,919	131,927	128,042	121,293	139,978
Peeled:					
Canned	1,547	2,225	4,307	3,583	3,875
Not breaded:					
Raw	37,233	38,959	47,451	63,792	69,501
Other	2,565	2,133	1,809	3,814	3,946
Breaded	527	830	1,567	1,259	1,415
Unclassified 2/	6,758	9,999	6,279	-	-
Total	178,549	186,073	189,455	193,741	218,715

1/ Shrimp import descriptions were revised at the beginning of 1969 to insure proper classification of all entrees. 2/ Includes unknown quantities of headless and raw peeled shrimp.

Source:--Department of Commerce, Bureau of the Census.

IMPORTS OF FISH MEAL AND SCRAP BY COUNTRY OF ORIGIN, 1966-70

Country of origin	1966	1967	1968	1969	1970
	Tons	Tons	Tons	Tons	Tons
Angola	569	-	-	-	-
Canada	43,618	46,626	65,119	67,780	75,453
Chile	89,381	40,937	103,907	59,941	11,631
Peru	276,651	442,547	635,933	218,141	153,202
Norway	21,048	113,243	40,991	8,273	9,188
Republic of South Africa	6,600	-	-	-	-
Other countries	9,917	8,133	9,335	4,215	2,018
Total	447,784	651,486	855,285	358,350	251,492

Source:--Department of Commerce, Bureau of the Census.

IMPORTS OF FISH SOLUBLES BY COUNTRY OF ORIGIN, 1966-70

Country of origin	1966	1967	1968	1969	1970
	Tons	Tons	Tons	Tons	Tons
Canada	1,402	1,283	714	146	144
Denmark	578	293	385	-	-
Republic of South Africa	2	-	-	-	-
Other countries	2,326	2,093	674	15	330
Total	4,308	3,669	1,773	161	474

Source:--Department of Commerce, Bureau of the Census.

U.S. IMPORTS

QUOTA AND IMPORTS OF CANNED TUNA NOT IN OIL, 1956-70

Year	Quota 1/	Imports	
		Under quota 2/	Over quota 3/
	Thousand pounds	Thousand pounds	Thousand pounds
1956	28,757	27,783	-
1957	44,529	42,524	-
1958	44,694	44,694	752
1959	52,373	52,373	2,931
1960	53,448	50,322	-
1961	57,115	56,210	-
1962	59,059	54,379	-
1963	63,131	56,414	-
1964	60,912	52,931	-
1965	66,059	49,204	-
1966	65,662	57,987	-
1967	69,472	62,275	-
1968	66,985	64,907	-
1969	71,703	71,333	-
1970	70,146	70,146	792

1/ Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack excluding American Samoa.

2/ Dutiable in 1956-67 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; and 1970, 8.5 percent ad valorem.

3/ Dutiable in 1958-59 at 25 percent ad valorem and in 1970 at 17 percent ad valorem.

Source:--Department of the Treasury, Bureau of Customs. (Data in this table will not agree with tuna import data released by the Department of Commerce, Bureau of the Census.)

QUOTA AND IMPORTS OF GROUNDFISH AND ATLANTIC OCEAN PERCH FILLETS AND STEAKS, 1960-70

Year	Quota 1/	Imports	
		Under quota 2/	Over quota 3/
	Thousand pounds	Thousand pounds	Thousand pounds
1960	36,533	36,533	29,345
1961	32,601	32,601	43,890
1962	28,571	28,571	49,307
1963	24,875	24,875	53,623
1964	24,862	24,862	55,542
1965	24,384	24,384	55,763
1966	23,591	23,591	84,933
1967	24,883	24,883	69,180
1968	24,895	24,895	104,255
1969	26,466	26,466	133,514
1970	27,401	27,401	158,693

1/ Limited to 15 million pounds or 15 percent of the average apparent annual U.S. consumption during the three immediately preceding calendar years, whichever is the greater.
2/ Dutiable at 1.875 cents per pound.
3/ Dutiable at 2.5 cents per pound.
Source:--Data on import quotas and imports under quota from Department of Treasury, Bureau of Customs. Imports over quota calculated from imports reported by Department of Commerce, Bureau of the Census.

U.S. IMPORTS

U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF ORIGIN, 1969

Continent and country of origin	Thousand pounds	Percent
North America:		
Canada	536,500	31.44
Mexico	81,793	4.79
Panama	13,025	.76
Greenland	11,032	.65
Nicaragua	7,761	.46
Costa Rica	6,345	.37
Other	28,832	1.69
Total	685,288	40.16
South America:		
Ecuador	30,782	1.81
Peru	23,609	1.38
Brazil	15,761	.93
Guyana	8,245	.48
Venezuela	6,355	.37
Other	20,526	1.20
Total	105,278	6.17
Europe:		
Norway	115,782	6.78
Iceland	108,919	6.38
Denmark	30,939	1.81
Poland	15,329	.90
Spain	12,163	.71
Portugal	12,076	.71
United Kingdom	6,254	.37
France	6,095	.36
Other	12,453	.73
Total	320,010	18.75
Asia:		
Japan	370,132	21.68
India	36,802	2.16
Malaysia	21,271	1.25
Republic of China (Taiwan)	13,107	.77
Republic of Korea	6,397	.37
Pakistan	5,785	.34
Other	22,013	1.29
Total	475,507	27.86
Australia and Oceania:		
British Western Pacific Islands	26,833	1.57
Australia	11,478	.67
New Zealand	6,530	.39
Other	335	.02
Total	45,176	2.65
Africa:		
Republic of South Africa	36,280	2.12
Ivory Coast	10,865	.64
Mauritius	9,396	.55
Sierra Leone	8,230	.48
Canary Islands	3,410	.20
Other	7,131	.42
Total	75,312	4.41
Grand total	1,706,571	100.00

Source:--Department of Commerce, Bureau of the Census.

U.S. IMPORTS

VALUE OF U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF ORIGIN, 1969

Continent and country of origin	Thousand dollars	Percent
North America:		
Canada	179,402	25.45
Mexico	62,498	8.87
Panama	10,991	1.56
Nicaragua	7,468	1.06
El Salvador	5,069	.72
Honduras	4,296	.61
Other	18,766	2.66
Total	288,490	40.93
South America:		
Brazil	16,927	2.40
Ecuador	12,845	1.82
Guyana	7,606	1.08
French Guiana	6,607	.94
Venezuela	6,211	.88
Other	15,216	2.16
Total	65,412	9.28
Europe:		
Norway	30,531	4.33
Iceland	24,288	3.45
Denmark	9,062	1.29
Portugal	6,909	.98
Spain	5,925	.84
United Kingdom	3,886	.55
Other	9,737	1.38
Total	90,338	12.82
Asia:		
Japan	115,570	16.40
India	23,180	3.29
Republic of China (Taiwan)	5,605	.80
Malaysia	5,596	.79
Pakistan	4,547	.64
Thailand	4,442	.63
Other	15,543	2.21
Total	174,483	24.76
Australia and Oceania:		
Australia	31,758	4.51
New Zealand	16,204	2.30
British Western Pacific Islands	6,348	.90
Other	151	.02
Total	54,461	7.73
Africa:		
Republic of South Africa	23,079	3.27
Ivory Coast	1,769	.25
Sierra Leone	1,695	.24
Canary Islands	796	.11
Other	4,286	.61
Total	31,625	4.48
Grand total	704,809	100.00

Source:--Department of Commerce, Bureau of the Census.

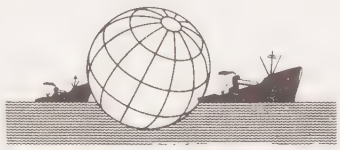
FOREIGN TRADE

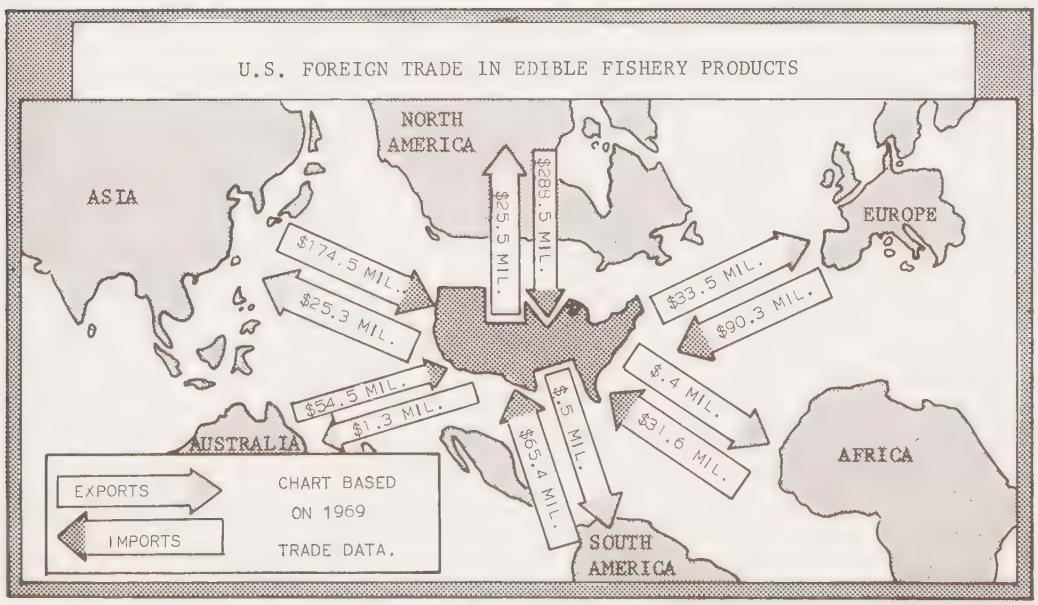
U.S. EXPORTS

IMPORTANT DOMESTIC FISHERY EXPORTS, 1969-70

Item	1969	1970	5-year average 1964-68
	Thousand pounds	Thousand pounds	Thousand pounds
Fresh and frozen:			
Salmon.	30,553	28,201	17,622
Shrimp.	25,219	29,570	7,975
Canned:			
Mackerel.	174	98	2,549
Salmon.	15,536	16,811	18,514
Sardines.	2,095	1,456	2,921
Shrimp.	5,682	6,075	4,481
Squid	12,216	8,825	10,763
Fish oils, unclassified	196,073	158,787	94,895

Source:--Department of Commerce, Bureau of the Census.





U.S. EXPORTS

EXPORTS OF DOMESTIC AND FOREIGN SHRIMP PRODUCTS, 1966-70

Item	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Fresh and frozen:					
Domestic	4,927	8,112	12,147	25,219	29,570
Foreign	11,397	15,890	8,314	10,513	14,700
Total	16,324	24,002	20,461	35,732	44,270
Canned:					
Domestic	4,479	5,255	4,467	5,682	6,075
Foreign	33	19	20	39	50
Total	4,512	5,274	4,487	5,721	6,125
Total:					
Domestic	9,406	13,367	16,614	30,901	35,645
Foreign	11,430	15,909	8,334	10,552	14,750
Total	20,836	29,276	24,948	41,453	50,395

Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FRESH AND FROZEN SHRIMP, 1966-70

Country of destination	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Bahamas	121	107	219	262	224
Bermuda	68	84	80	104	119
Canada	1,865	2,471	2,767	3,783	4,957
Jamaica	117	107	115	80	115
Japan	1,866	3,904	2,662	4,673	2,715
Mexico	7	525	3,899	8,359	9,476
Nansei and Nanpo Islands	56	168	23	79	115
Netherlands	55	46	42	5	58
United Kingdom	276	227	131	728	2,247
Other countries	496	473	2,209	7,146	9,544
Total	4,927	8,112	12,147	25,219	29,570

Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED SHRIMP, 1966-70

Country of destination	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Canada	2,090	2,523	2,553	3,119	3,600
Denmark	35	11	8	4	43
France	196	257	247	562	217
Japan	6	4	11	1	-
Mexico	2	3	1	(1)	3
Republic of South Africa	38	73	34	39	81
Switzerland	150	159	151	189	184
United Kingdom	1,626	1,710	1,184	993	1,217
Other countries	336	515	278	775	730
Total	4,479	5,255	4,467	5,682	6,075

1/ Less than 500 pounds. Source:--Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC FRESH AND FROZEN SALMON, 1966-70

Country of destination	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Australia	130	107	118	138	58
Belgium	530	692	673	790	1,113
Canada	3,779	2,527	1,255	2,567	4,361
Denmark	408	172	53	443	698
France	4,701	5,216	3,980	4,298	5,605
Italy	53	16	14	72	93
Japan	2,468	2,218	2,912	14,137	7,676
Mexico	35	72	23	14	82
Netherlands	172	625	392	551	337
Sweden	1,636	1,644	1,826	2,367	3,012
United Kingdom	5,163	4,635	4,360	4,004	4,221
West Germany	327	443	205	448	401
Other countries	443	544	423	724	544
Total	19,845	18,911	16,234	30,553	28,201

Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED SARDINES, 1966-70

Country of destination	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Canada	1,533	625	2,321	1,704	1,211
Ecuador	28	-	-	-	-
Ghana	-	1	-	-	-
Philippines	-	2	-	1	-
Congo	1,068	36	156	-	-
Other countries	928	709	556	390	245
Total	3,557	1,373	3,033	2,095	1,456

Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC CANNED MACKEREL, 1966-70

Country of destination	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
French Pacific Islands	149	20	7	4	6
Greece	26	-	-	-	-
Guatemala	207	350	239	17	-
Hong Kong	61	-	-	-	-
New Zealand	3	-	-	-	-
El Salvador	322	5	-	-	-
Other countries	371	163	59	153	92
Total	1,139	538	305	174	98

Source:--Department of Commerce, Bureau of the Census.

U.S. EXPORTS

EXPORTS OF DOMESTIC CANNED SQUID, 1966-70

Country of destination	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Australia	90	100	55	239	36
Greece	5,399	7,199	4,953	6,292	4,721
Netherlands	118	37	45	46	31
Philippines	3,816	4,832	5,688	4,991	3,483
Spain	-	-	-	226	-
West Germany	444	179	837	311	390
Other countries	292	440	377	111	164
Total	10,159	12,787	11,955	12,216	8,825

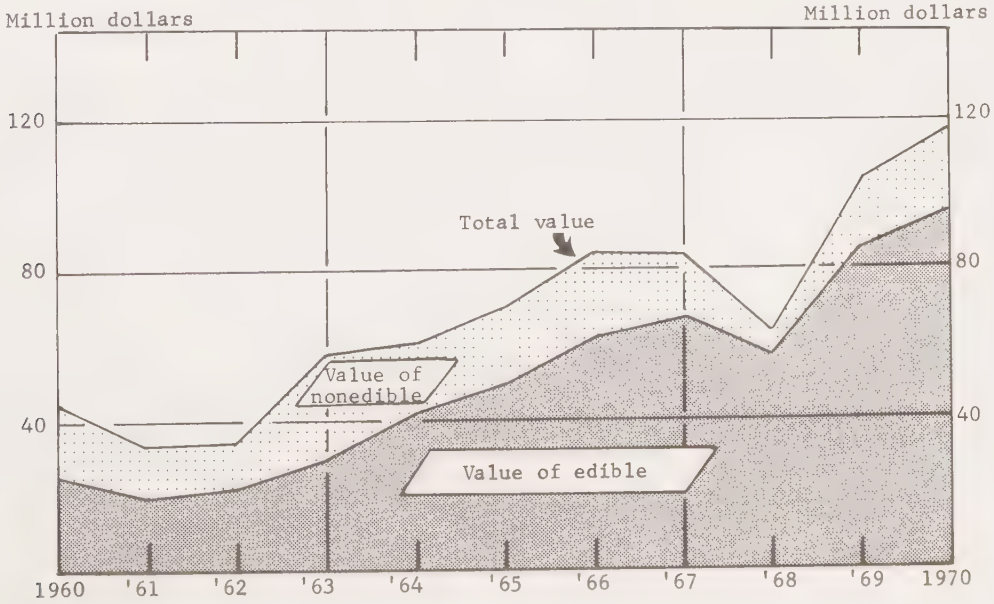
Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FISH AND FISH LIVER OILS, 1966-70

Country of destination	1966	1967	1968	1969	1970
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Belgium	5,001	2,860	-	4,451	-
Canada	1,353	323	1 628	1,259	623
Netherlands	24,490	37,076	18,953	110,605	57,495
Norway	11,448	-	-	-	36,038
Sweden	6,602	20,415	30,611	16,906	16,975
United Kingdom	14,331	6,630	5	16,888	24,602
West Germany	9,375	8,135	13,742	17,494	13,212
Other countries	4,655	1,377	190	28,470	9,842
Total	77,255	76,816	65,129	196,073	158,787

Source:--Department of Commerce, Bureau of the Census.

VALUE OF EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1960-70



FOREIGN TRADE

U.S. EXPORTS

U.S. EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY COUNTRY OF DESTINATION, 1969

(Thousands of pounds and thousands of dollars)

Country of destination	Edible		Nonedible	Total
	Quantity	Value	Value	Value
North America:				
Canada	25,942	16,575	2,480	19,055
Mexico	8,699	6,277	62	6,339
Guatemala	44	34	3	37
British Honduras	6	9	6	15
El Salvador	10	9	1	10
Honduras	76	15	-	15
Nicaragua	129	36	-	36
Costa Rica	140	55	-	55
Panama	300	211	(1)	211
Bermuda	325	361	8	369
Bahamas	1,372	1,032	4	1,036
Jamaica	761	376	5	381
Haiti	15	3	2	5
Dominican Republic	75	54	2	56
Leeward and Windward Islands	342	103	3	106
Barbados	59	65	2	67
Trinidad	40	22	1	23
Netherlands Antilles	432	315	-	315
French West Indies	2	1	1	2
Total	38,769	25,553	2,580	28,133
South America:				
Colombia	9	8	9	17
Venezuela	379	350	6	356
Guyana	4	4	-	4
Surinam	22	11	3	14
French Guiana	2	3	-	3
Ecuador	1	1	1	2
Peru	12	10	1	11
Bolivia	23	26	-	26
Chile	-	-	1	1
Brazil	30	25	2	27
Paraguay	5	2	-	2
Uruguay	3	4	33	37
Argentina	111	35	19	54
Total	601	479	75	554
Europe:				
Iceland	2	1	-	1
Sweden	10,281	6,596	795	7,391
Norway	746	560	2	562
Finland	28	19	-	19
Denmark	873	534	20	554
United Kingdom	15,926	12,011	1,260	13,271
Ireland	134	96	2	98
Netherlands	4,759	2,928	6,240	9,168
Belgium	2,405	1,783	284	2,067
France	6,368	4,838	623	5,461
West Germany	1,949	1,458	1,374	2,832
Austria	3	5	21	26
Switzerland	442	376	1,155	1,531
Spain	856	191	35	226

See footnote at end of table.

(Continued on next page)

U.S. EXPORTS

U.S. EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY COUNTRY OF DESTINATION, 1969 - Continued

(Thousands of pounds and thousands of dollars)

Country of destination	Edible		Nonedible	Total
	Quantity	Value	Value	Value
Europe - continued:				
Portugal	1,470	198	389	587
Gibraltar	4	5	-	5
Malta	3	2	-	2
Italy	530	209	615	824
Yugoslavia	4,411	407	-	407
Greece	8,717	1,252	20	1,272
Turkey	1	1	-	1
Cyprus	6	7	-	7
Total	59,914	33,477	12,835	46,312
Asia:				
Lebanon	18	25	-	25
Iran	21	13	-	13
Israel	11	10	30	40
Jordan	-	1	-	1
Kuwait	7	8	-	8
Saudi Arabia	44	35	-	35
Arabia Peninsula States	10	8	-	8
Bahrain	36	16	-	16
India	4	3	(1)	3
Thailand	21	16	1	17
South Vietnam	68	57	-	57
Malaysia	48	31	-	31
Singapore	128	106	-	106
Indonesia	2	3	-	3
Philippines	5,714	775	7	782
Republic of Korea	1,017	56	37	93
Hong Kong	477	522	18	540
Taiwan	22	29	-	29
Japan	30,833	23,464	2,440	25,904
Nansei and Nanpo Islands	107	96	-	96
Afghan	1	1	-	1
Total	38,589	25,275	2,533	27,808
Australia and Oceania:				
Australia	1,673	1,046	9	1,055
New Guinea	8	7	-	7
New Zealand	39	37	-	37
British Western Pacific Islands	7	6	-	6
French Pacific Islands	203	193	1	194
Trust Territory of the Pacific Islands	27	20	-	20
Total	1,957	1,309	10	1,319

See footnote at end of table.

(Continued on next page)

FOREIGN TRADE

U.S. EXPORTS

U.S. EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY COUNTRY OF DESTINATION, 1969 - Continued

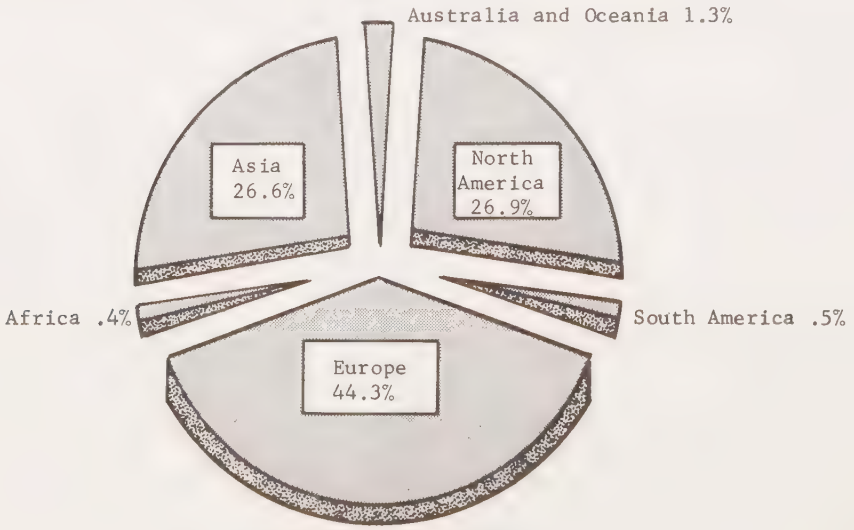
(Thousands of pounds and thousands of dollars)

Country of destination	Edible		Nonedible	Total
	Quantity	Value	Value	Value
Africa:				
Morocco	2	2	-	2
Libya	48	33	-	33
United Arab Republic	1	1	-	1
Canary Islands	79	86	-	86
Sierra Leone	5	5	-	5
Ivory Coast	5	4	-	4
Ghana	28	20	-	20
Madeira Island	6	6	-	6
Angola	30	22	-	22
Liberia	14	14	-	14
Uganda	6	4	-	4
Congo	1	1	-	1
Afars and Issas	1	1	-	1
Kenya	-	1	7	8
Tanzania	-	-	1	1
Mauritius	9	8	-	8
Mozambique	3	1	-	1
Malagasy Republic	72	88	-	88
Republic of South Africa	19	19	17	36
Rhodesia	2	2	-	2
Malawi	440	36	-	36
West Portuguese Africa	45	27	-	27
Nigeria	-	-	1	1
Total	816	381	26	407
Grand total	140,646	86,474	18,059	104,533

1/ Less than 500 pounds or $500.

Source:--Department of Commerce, Bureau of the Census.

VALUE OF U.S. EXPORTS TO CONTINENT OF DESTINATION, 1969



TOTAL VALUE $104,533,000

IMPORTS OF FISHERY PRODUCTS, 1946-70

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1946	473,539	89,986	39,727	129,713
1947	407,636	83,275	26,700	109,975
1948	472,742	111,660	44,988	156,648
1949	470,517	113,753	37,861	151,614
1950	639,725	158,414	39,882	198,296
1951	646,668	158,363	54,094	212,457
1952	705,118	183,121	57,308	240,429
1953	726,195	195,869	49,611	245,480
1954	804,054	203,722	48,687	252,409
1955	780,185	208,973	49,896	258,869
1956	801,655	234,699	48,031	282,730
1957	900,227	252,788	46,487	299,275
1958	1,020,326	283,822	46,959	330,781
1959	1,141,114	314,650	55,467	370,117
1960	1,095,014	310,596	52,685	363,281
1961	1,087,175	339,318	61,301	400,619
1962	1,255,532	405,832	83,975	489,807
1963	1,196,977	399,928	100,784	500,712
1964	1,318,099	433,674	130,569	564,243
1965	1,398,778	479,412	121,492	600,904
1966	1,593,714	568,091	151,611	719,702
1967	1,470,437	538,301	169,582	707,883
1968	1,741,365	643,165	179,504	822,669
1969	1,706,571	704,809	139,484	844,293
1970	*1,843,592	*812,511	*227,111	*1,039,622

*Record. Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1946-70

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1946	200,398	38,353	1,616	39,969
1947	207,486	49,281	3,555	52,836
1948	95,085	21,020	3,382	24,402
1949	146,660	29,212	5,838	35,050
1950	121,623	18,856	8,618	27,474
1951	165,624	27,072	8,659	35,731
1952	62,056	15,511	6,436	21,947
1953	69,308	17,084	10,794	27,878
1954	62,724	16,238	15,289	31,527
1955	109,750	24,923	15,054	39,977
1956	101,918	22,939	16,564	39,503
1957	85,221	20,549	15,403	35,952
1958	65,468	19,440	11,564	31,004
1959	80,688	26,747	17,495	44,242
1960	61,454	25,622	18,543	44,165
1961	40,137	19,594	15,116	34,710
1962	56,530	22,470	13,258	35,728
1963	64,745	30,376	26,229	56,605
1964	94,835	42,878	21,326	64,204
1965	96,444	49,308	20,175	69,483
1966	109,604	62,882	21,931	84,813
1967	107,940	67,524	14,685	82,209
1968	90,808	56,845	10,912	67,757
1969	140,646	86,474	18,059	104,533
1970	140,728	95,215	22,460	*117,675

*Record. Source:--Department of Commerce, Bureau of the Census.

SUPPLY OF FISHERY PRODUCTS, 1959-70

(Round weight basis)

Year	Domestic catch		Imports 1/		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1959	5,122	60.5	3,338	39.5	8,460
1960	4,942	60.1	3,281	39.9	8,223
1961	5,187	54.2	4,383	45.8	9,570
1962	*5,354	51.4	5,054	48.6	10,408
1963	4,847	42.4	6,587	57.6	11,434
1964	4,541	37.7	7,490	62.3	12,031
1965	4,777	45.3	5,758	54.7	10,535
1966	4,366	35.0	8,103	65.0	12,469
1967	4,055	29.0	9,936	71.0	13,991
1968	4,116	23.7	*13,221	76.3	*17,337
1969	4,292	36.4	7,510	63.6	11,802
1970	4,884	42.6	6,576	57.4	11,460

1/ Excludes imports of cured cod into Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. *Record.

SUPPLY OF EDIBLE FISHERY PRODUCTS, 1959-70

(Round weight basis)

Year	Domestic catch		Imports 1/		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1959	2,369	55.5	1,901	44.5	4,270
1960	2,498	58.6	1,766	41.4	4,264
1961	2,490	57.4	1,845	42.6	4,335
1962	2,540	54.6	2,115	45.4	4,655
1963	2,556	53.2	2,247	46.8	4,803
1964	2,497	51.2	2,376	48.8	4,873
1965	2,587	50.1	2,576	49.9	5,163
1966	2,573	47.4	2,859	52.6	5,432
1967	2,368	48.8	2,481	51.2	4,849
1968	2,296	41.5	3,232	58.5	5,528
1969	2,246	40.1	3,353	59.9	5,599
1970	2,482	40.2	*3,692	59.8	*6,174

1/ Excludes imports of cured cod into Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. *Record. (The Record domestic catch of edible fishery products amounting to 3,307 million pounds was landed in 1950.)

SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1959-70

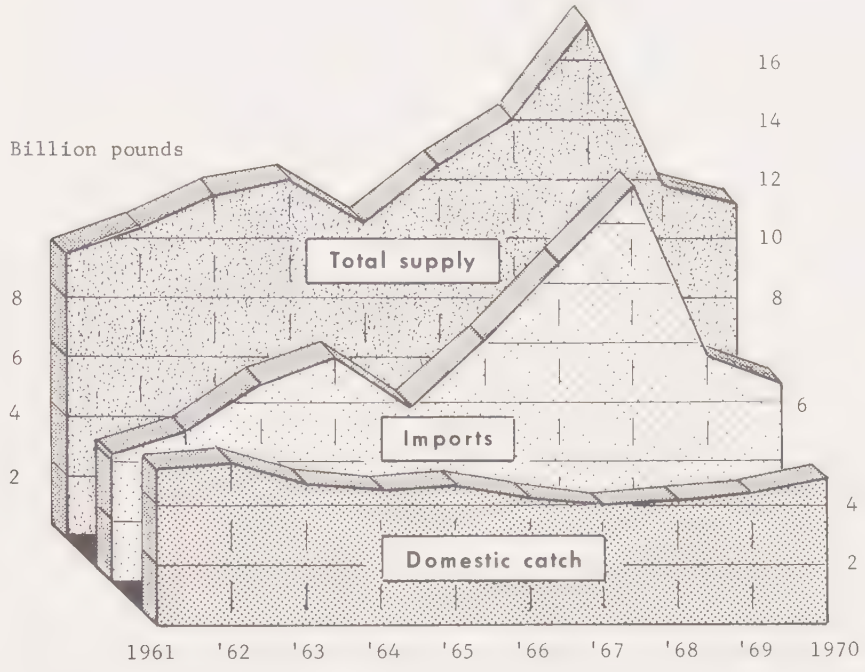
(Round weight basis)

Year	Domestic catch		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1959	2,753	65.7	1,437	34.3	4,190
1960	2,444	61.7	1,515	38.3	3,959
1961	2,697	51.5	2,538	48.5	5,235
1962	*2,814	48.9	2,939	51.1	5,753
1963	2,291	34.5	4,340	65.5	6,631
1964	2,044	28.6	5,114	71.4	7,158
1965	2,190	40.8	3,182	59.2	5,372
1966	1,793	25.5	5,244	74.5	7,037
1967	1,687	18.5	7,455	81.5	9,142
1968	1,820	15.4	*9,989	84.6	*11,809
1969	2,046	33.0	4,157	67.0	6,203
1970	2,402	45.4	2,884	54.6	5,286

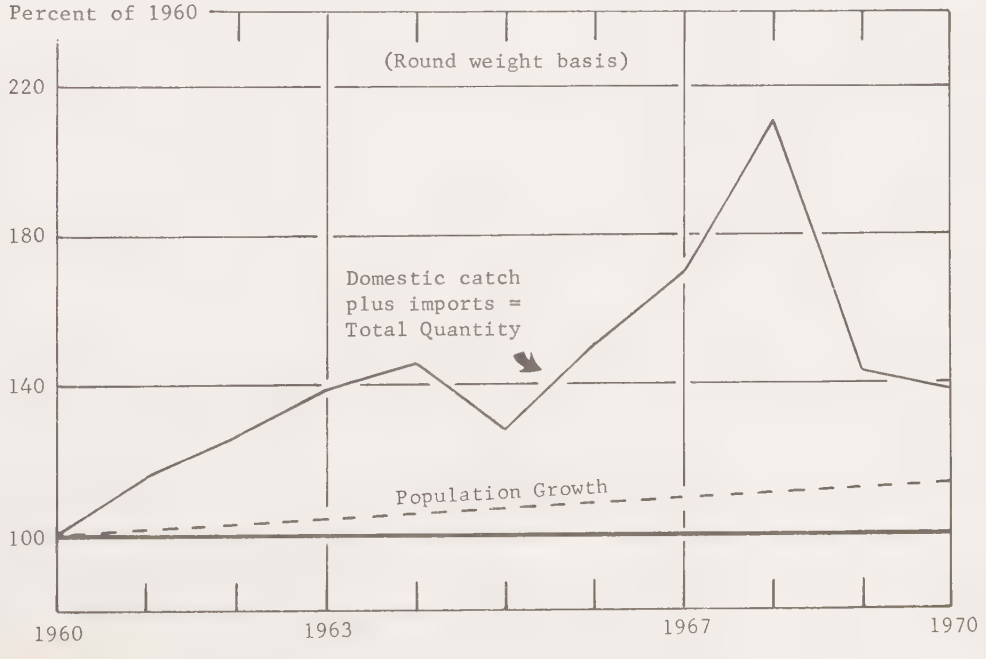
*Record. Note:--The weights of the domestic catch and imports represent the live (round) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in the weight of meats, excluding the shell.

U.S. TOTAL SUPPLY OF FISHERY PRODUCTS, 1961-70

(Round weight basis)



TOTAL QUANTITY OF FISHERY PRODUCTS COMPARED WITH POPULATION GROWTH, 1960-70



SUPPLY OF FISHERY PRODUCTS

SUPPLY OF GROUNDFISH AND ATLANTIC OCEAN PERCH FILLETS AND STEAKS, 1949-70

Year	U.S. production		Imports 1/		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1949	140,078	74.6	47,777	25.4	187,855
1950	136,593	67.3	66,468	32.7	203,061
1951	*148,786	62.9	87,639	37.1	236,425
1952	132,662	55.3	107,401	44.7	240,063
1953	112,280	55.6	89,706	44.4	201,986
1954	122,391	47.1	137,548	52.9	259,939
1955	105,157	45.0	128,312	55.0	233,469
1956	107,138	44.2	135,295	55.8	242,433
1957	96,650	40.7	140,678	59.3	237,328
1958	99,074	40.3	146,589	59.7	245,663
1959	91,133	33.0	184,837	67.0	275,970
1960	93,818	37.6	155,550	62.4	249,368
1961	93,039	32.3	195,099	67.7	288,138
1962	93,625	29.7	221,420	70.3	315,045
1963	83,419	26.5	231,768	73.5	315,187
1964	75,166	23.4	246,569	76.6	321,735
1965	77,180	20.7	294,954	79.3	372,134
1966	75,418	19.3	315,097	80.7	390,515
1967	71,034	20.0	283,567	80.0	354,601
1968	55,349	12.4	390,236	87.6	445,585
1969	47,279	10.0	426,728	90.0	474,007
1970	42,894	8.6	*458,751	91.4	*501,645

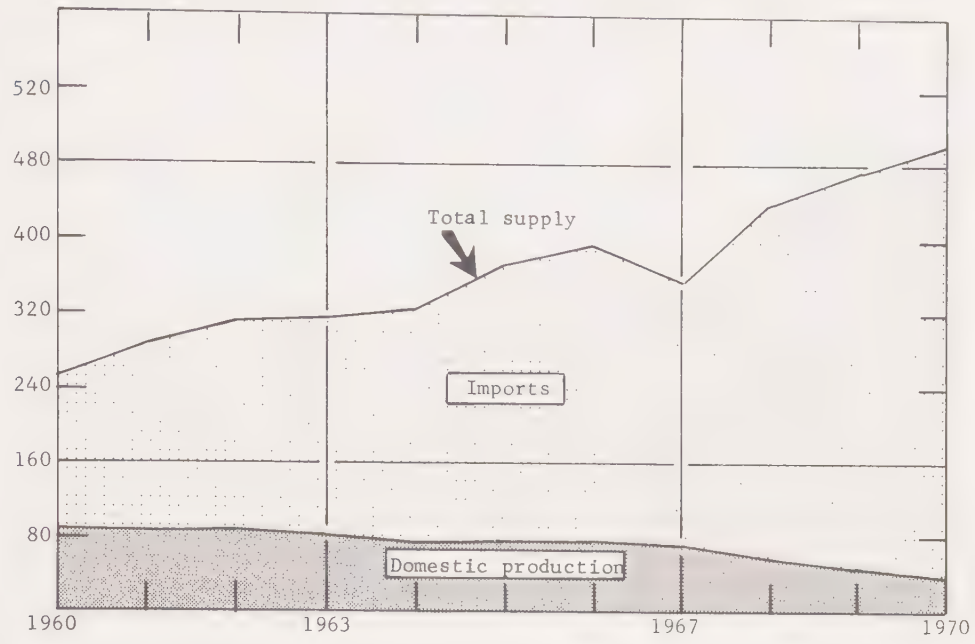
1/ Includes imports of frozen blocks of groundfish. *Record.

SUPPLY OF FILLETS AND STEAKS, OTHER THAN GROUNDFISH AND ATLANTIC OCEAN PERCH, 1949-70

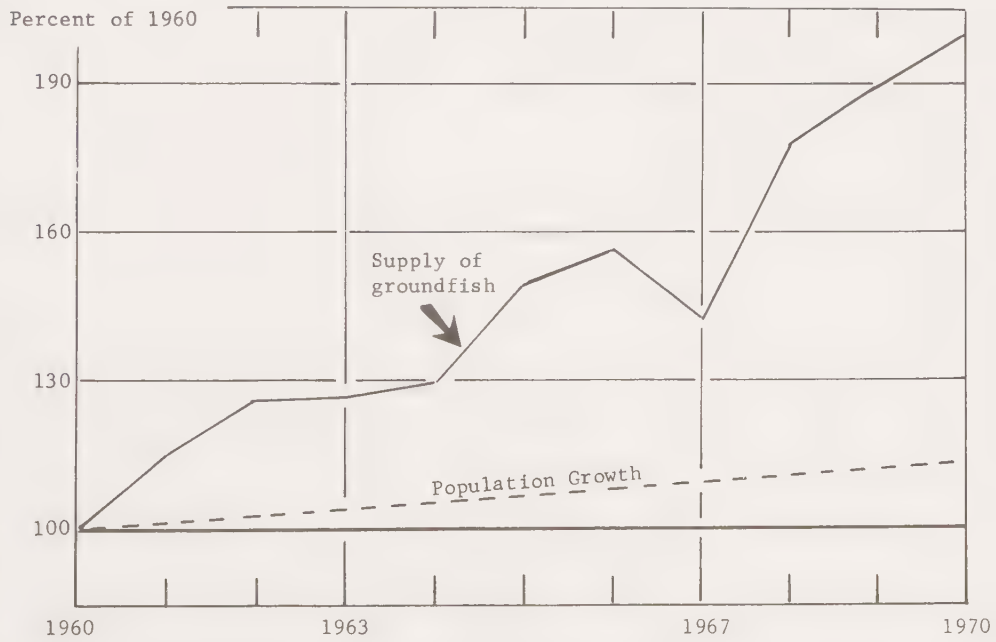
Year	U.S. production		Imports		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1949	54,137	74.5	18,497	25.5	72,634
1950	55,859	64.0	31,445	36.0	87,304
1951	56,709	55.5	45,528	44.5	102,237
1952	58,535	52.5	52,873	47.5	111,408
1953	48,132	48.4	51,344	51.6	99,476
1954	51,251	51.6	47,911	48.4	99,162
1955	51,922	48.4	55,223	51.6	107,145
1956	55,661	48.0	60,274	52.0	115,935
1957	57,815	47.7	63,300	52.3	121,115
1958	56,801	47.5	62,688	52.5	119,489
1959	56,104	46.4	64,802	53.6	120,906
1960	59,348	49.0	61,713	51.0	121,061
1961	65,073	49.2	67,167	50.8	132,240
1962	76,361	50.0	76,443	50.0	152,804
1963	82,565	54.5	68,869	45.5	151,434
1964	85,955	53.9	73,554	46.1	159,509
1965	*91,652	55.1	74,724	44.9	166,376
1966	90,472	49.4	92,708	50.6	183,180
1967	81,961	49.1	84,862	50.9	166,823
1968	80,163	42.3	109,163	57.7	189,326
1969	89,473	42.6	120,434	57.4	209,907
1970	90,915	40.0	*136,101	60.0	*227,016

*Record.

SUPPLY OF GROUNDFISH AND OCEAN PERCH FILLETS, 1960-70



SUPPLY OF GROUNDFISH AND ATLANTIC OCEAN PERCH FILLETS COMPARED WITH POPULATION GROWTH, 1960-70



CATCH AND IMPORTS OF TUNA, 1961-70

Year	U.S. Catch			Imports		
	Atlantic, Gulf, and Pacific Coast States and Hawaii	Puerto Rico 1/	Total	Fresh & frozen including cooked loins and discs 2/	Canned	
					In oil	In brine
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1961. . . .	325,804	31,050	356,854	269,165	431	58,232
1962. . . .	312,157	28,790	340,947	364,528	358	56,361
1963. . . .	321,619	37,025	358,644	320,910	224	57,270
1964. . . .	305,829	48,393	354,222	379,242	201	54,446
1965. . . .	318,895	54,576	373,471	378,637	211	50,750
1966. . . .	269,172	64,698	333,870	449,840	160	61,400
1967. . . .	328,368	97,882	426,250	387,142	186	65,135
1968. . . .	293,840	107,660	401,500	422,200	150	67,023
1969. . . .	323,041	96,268	419,309	414,465	158	72,958
1970. . . .	393,000	84,852	477,852	458,485	153	72,110

1/ Includes a small quantity of fish landed at American Samoa by American flag vessels.
2/ Round weight. Includes landings of foreign-caught fish in American Samoa.

SUPPLY OF CANNED TUNA, 1961-70

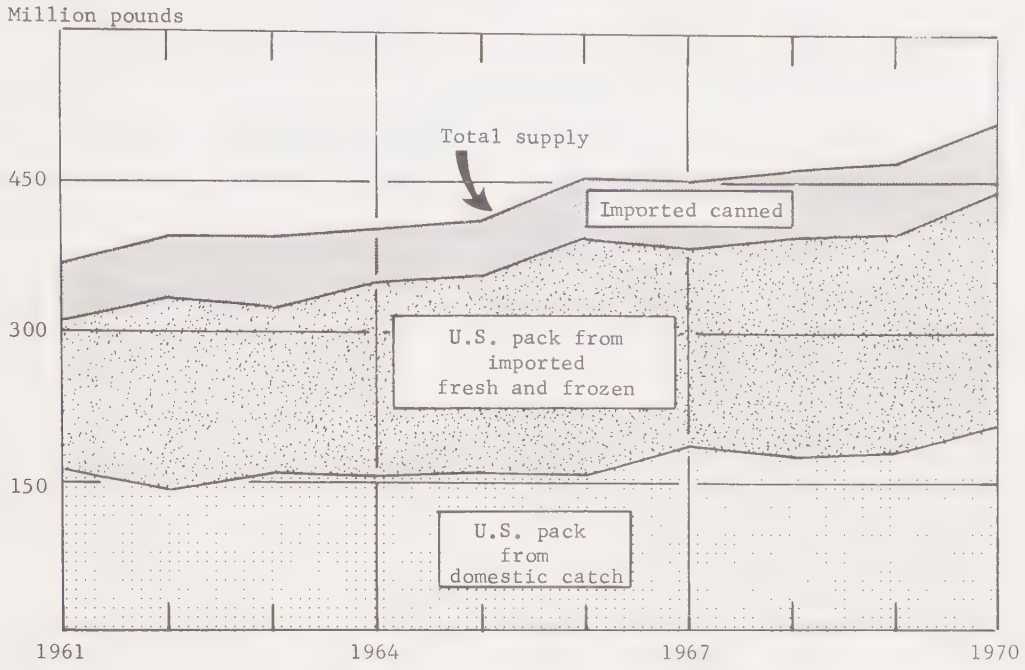
Year	U.S. pack from domestic catch 1/		U.S. pack from imported fresh and frozen tuna 2/		Total	Imported canned		Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1961. . . .	163,853	44.4	146,759	39.7	310,612	58,663	15.9	369,275
1962. . . .	147,586	37.6	187,920	47.9	335,506	56,719	14.5	392,225
1963. . . .	160,822	41.8	165,890	43.2	326,712	57,494	15.0	384,206
1964. . . .	154,208	38.1	195,626	48.4	349,834	54,647	13.5	404,481
1965. . . .	161,515	39.5	196,890	48.1	358,405	50,961	12.4	409,366
1966. . . .	153,231	33.6	*241,037	52.9	394,268	61,560	13.5	455,828
1967. . . .	183,236	40.3	205,609	45.3	388,845	65,321	14.4	454,166
1968. . . .	175,691	37.9	220,266	47.6	395,957	67,173	14.5	463,130
1969. . . .	179,806	38.3	216,242	46.1	396,048	*73,116	15.6	469,164
1970. . . .	*204,024	40.0	234,026	45.8	*438,050	72,263	14.2	*510,313

1/ Includes pack from the U.S. catch landed in Puerto Rico and American Samoa. 2/ Includes tuna canned in American Samoa from foreign-caught fish. *Record.

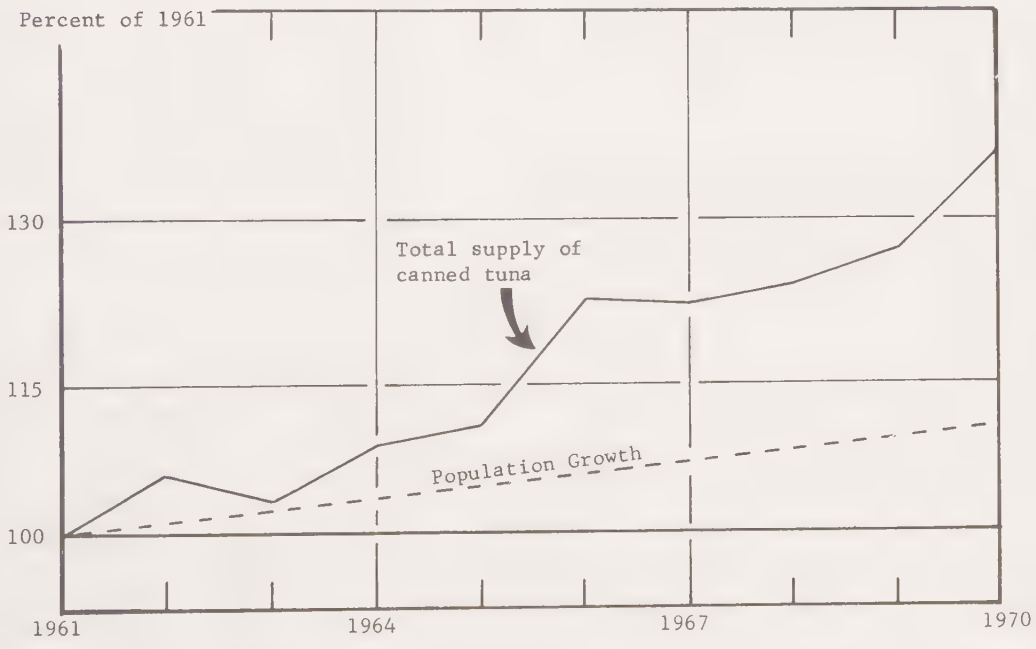
SUPPLY OF CANNED BONITO AND YELLOWTAIL, 1959-70

Year	U.S. pack		Imports				Total supply
			In oil	In brine	Total		
	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1959. . . .	1,071	7.3	9,675	3,848	13,523	92.7	14,594
1960. . . .	276	2.7	7,109	2,795	9,904	97.3	10,180
1961. . . .	3,023	22.6	6,853	3,503	10,356	77.4	13,379
1962. . . .	610	6.5	6,127	2,600	8,727	93.5	9,337
1963. . . .	1,387	19.1	3,480	2,385	5,865	80.9	7,252
1964. . . .	467	8.6	3,050	1,940	4,990	91.4	5,457
1965. . . .	944	19.4	2,044	1,888	3,932	80.6	4,876
1966. . . .	4,426	60.8	1,534	1,320	2,854	39.2	7,280
1967. . . .	5,996	78.6	558	1,075	1,633	21.4	7,629
1968. . . .	4,202	82.5	547	346	893	17.5	5,095
1969. . . .	4,948	87.3	354	364	718	12.7	5,666
1970. . . .	2,815	69.6	829	403	1,232	30.4	4,047

SUPPLY OF CANNED TUNA, 1961-70



SUPPLY OF CANNED TUNA
COMPARED WITH POPULATION GROWTH, 1961-70



SUPPLY OF CANNED SARDINES, 1959-70

Year	U.S. production		Imports		Exports		Total for U.S. consumption
	Maine	Pacific	In oil	Not in oil	In oil	Not in oil	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1959. . . .	41,024	33,956	21,153	1,010	1,271	37,453	58,419
1960. . . .	46,744	27,714	21,236	6,140	264	20,955	80,615
1961. . . .	17,635	18,859	27,877	14,611	185	7,475	71,322
1962. . . .	50,248	6,168	32,603	20,342	578	7,188	101,595
1963. . . .	37,890	2,568	19,908	21,640	146	3,493	78,367
1964. . . .	20,259	5,438	20,033	24,602	839	2,426	67,067
1965. . . .	29,646	374	21,532	23,538	(1)	3,376	71,714
1966. . . .	31,118	116	23,601	33,987	(1)	3,557	85,265
1967. . . .	29,260	(2)	25,494	26,945	(1)	1,373	80,326
1968. . . .	40,489	(2)	28,436	30,431	(1)	3,033	96,323
1969. . . .	24,402	(3)	27,220	18,147	(1)	2,095	67,674
1970. . . .	18,851	(3)	34,029	12,837	(1)	1,456	64,261

1/ Data on the pack in oil have been included with the pack not in oil. 2/ Data not available.
3/ There was no pack of Pacific sardines in 1969-70.

SUPPLY OF CANNED SARDINES OBTAINED FROM DOMESTIC PACK AND IMPORTS, 1959-70

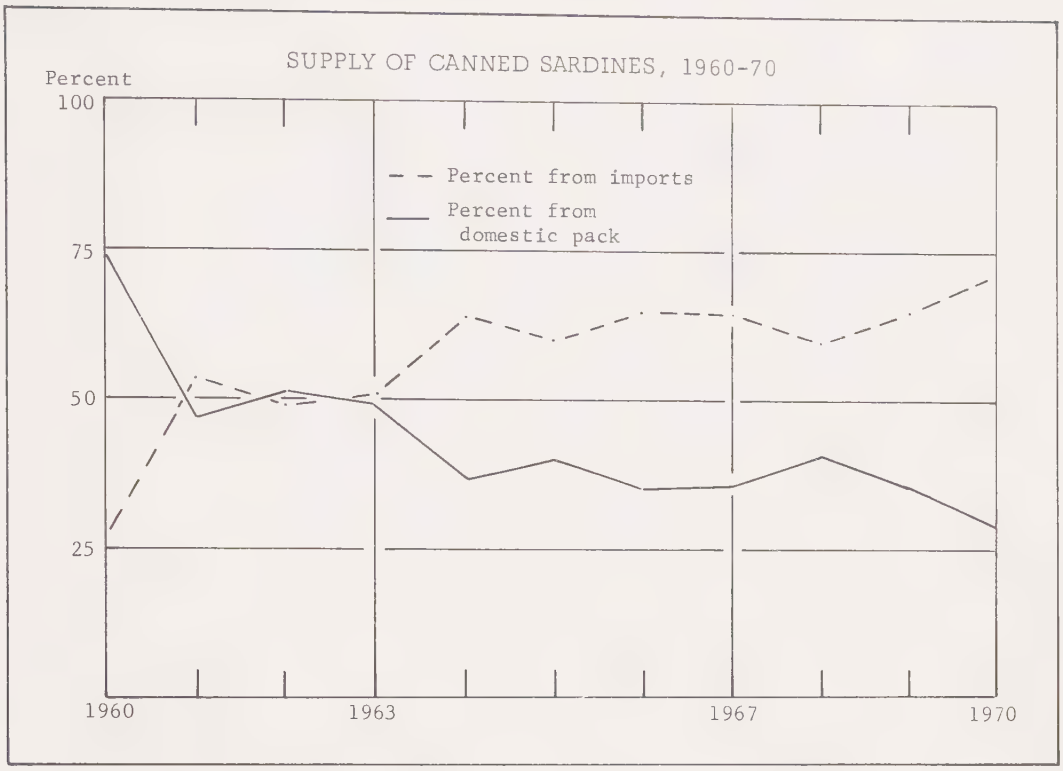
Year	U.S. pack 1/	Percent of total supply	Imports	Percent of total supply	Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1959. . . .	74,980	77.2	22,163	22.8	97,143
1960. . . .	74,458	73.1	27,376	26.9	101,834
1961. . . .	36,494	46.2	42,488	53.8	78,982
1962. . . .	56,416	51.6	52,945	48.4	109,361
1963. . . .	40,458	49.3	41,548	50.7	82,006
1964. . . .	25,697	36.5	44,635	63.5	70,332
1965. . . .	30,020	40.0	45,070	60.0	75,090
1966. . . .	31,234	35.2	57,588	64.8	88,822
1967. . . .	29,260	35.8	52,439	64.2	81,699
1968. . . .	40,489	40.8	58,867	59.2	99,356
1969. . . .	24,402	35.0	45,367	65.0	69,769
1970. . . .	18,851	28.7	46,866	71.3	65,717

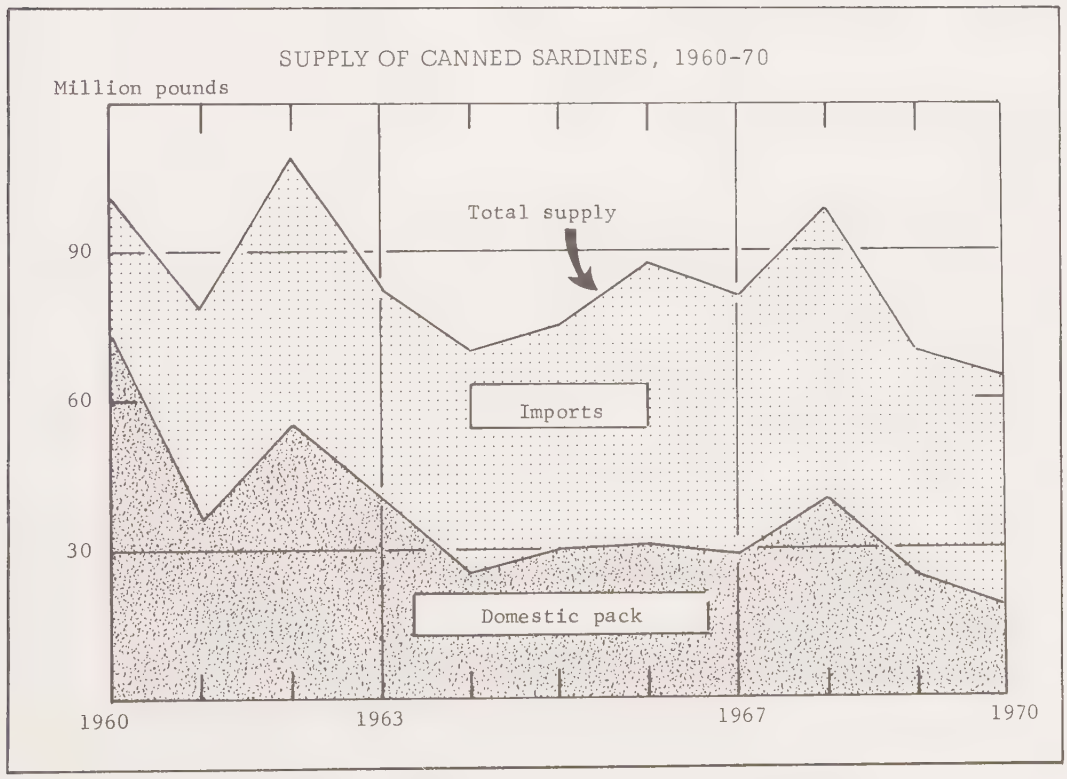
1/ Includes the pack of Maine and Pacific sardines for 1959-66. Data on Pacific sardines for 1967-68 are not available. There was no pack of Pacific sardines in 1969-70.

SUPPLY OF CANNED SALMON, 1959-70

Year	U.S. pack 1/	Percent of total supply	Imports	Percent of total supply	Total supply	Exports	Total for U.S. consumption
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds
1959. . . .	118,330	79.2	31,154	20.8	149,484	13,826	135,658
1960. . . .	136,049	87.7	19,113	12.3	155,162	11,924	143,238
1961. . . .	177,443	96.1	7,167	3.9	184,610	7,186	177,424
1962. . . .	182,435	96.4	6,843	3.6	189,278	8,978	180,300
1963. . . .	158,153	99.2	1,250	.8	159,403	10,228	149,175
1964. . . .	180,442	99.9	236	.1	180,678	20,924	159,754
1965. . . .	174,413	99.9	101	.1	174,514	24,892	149,622
1966. . . .	209,161	99.7	589	.3	209,750	20,484	189,266
1967. . . .	99,473	99.9	121	.1	99,594	20,543	79,051
1968. . . .	165,490	97.1	4,955	2.9	170,445	5,726	164,719
1969. . . .	120,948	98.2	2,217	1.8	123,165	15,536	107,629
1970. . . .	187,841	98.7	2,441	1.3	190,282	16,811	173,471

1/ Record pack, 1936 (430,328,496 pounds).

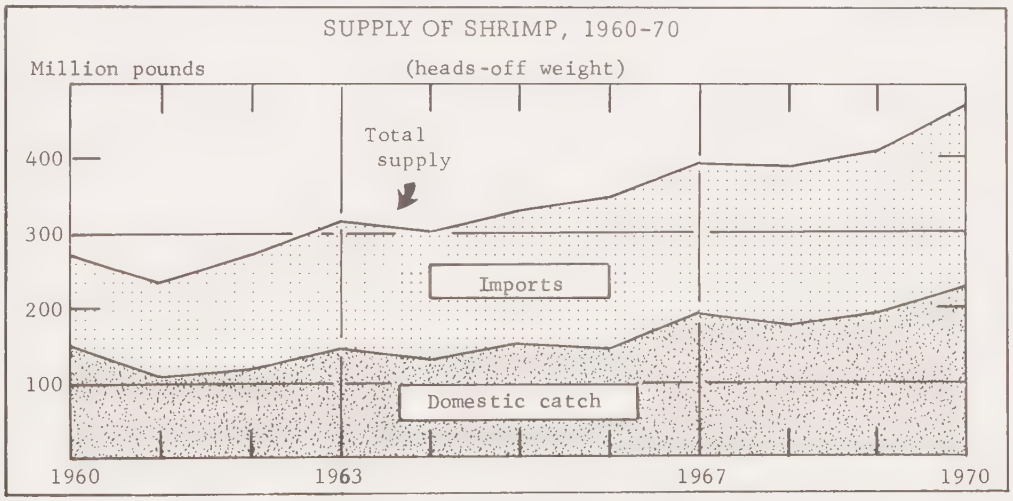

SUPPLY OF CANNED SARDINES, 1960-70
Percent
100
75
50
25
Percent from imports
Percent from domestic pack
1960
1963
1967
1970


SUPPLY OF CANNED SARDINES, 1960-70
Million pounds
90
60
30
Total supply
Imports
Domestic pack
1960
1963
1967
1970

SUPPLY OF SHRIMP, 1959-70

Year	U.S. catch			Imports 1/			Total, Heads-off
	Heads-on	Heads-off	Percent of total	Import weight	Heads-off	Percent of total	
	Thousand pounds	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1959. . . .	240,182	142,965	56	106,555	111,704	44	254,669
1960. . . .	249,452	148,483	55	113,418	119,139	45	267,622
1961. . . .	174,530	103,865	44	126,268	134,564	56	238,429
1962. . . .	191,105	119,154	44	141,183	152,504	56	271,658
1963. . . .	240,478	150,737	47	151,530	167,344	53	318,081
1964. . . .	211,821	133,113	44	154,577	169,510	56	302,623
1965. . . .	243,645	152,346	46	162,942	178,955	54	331,301
1966. . . .	239,046	148,255	43	178,549	194,946	57	343,201
1967. . . .	307,787	189,972	48	186,073	202,105	52	392,077
1968. . . .	291,600	179,430	46	189,455	209,342	54	388,772
1969. . . .	317,100	195,500	47	193,741	220,100	53	415,600
1970. . . .	*368,100	224,000	47	*218,715	254,700	53	*478,700

1/ Imports were converted to heads-off weight on the basis of available data on the actual condition of the imports. *Record.



SUPPLY OF CANNED SHRIMP, 1959-70

Year	U.S. pack	Imports	Exports		Total for U.S. consumption
			Domestic	Foreign	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1959. . . .	13,832	(1)	2,876	19	(1)
1960. . . .	14,268	(1)	3,482	34	(1)
1961. . . .	9,284	(1)	2,503	25	(1)
1962. . . .	13,249	(1)	2,212	44	(1)
1963. . . .	15,904	2/4,120	3,199	33	16,792
1964. . . .	9,740	3,004	3,692	25	9,027
1965. . . .	15,629	2,248	4,510	34	13,333
1966. . . .	14,201	1,547	4,479	33	11,236
1967. . . .	16,851	2,225	5,255	19	13,802
1968. . . .	18,967	4,307	4,467	20	18,787
1969. . . .	19,142	3,583	5,682	39	17,004
1970. . . .	*26,491	3,875	*6,075	50	*24,241

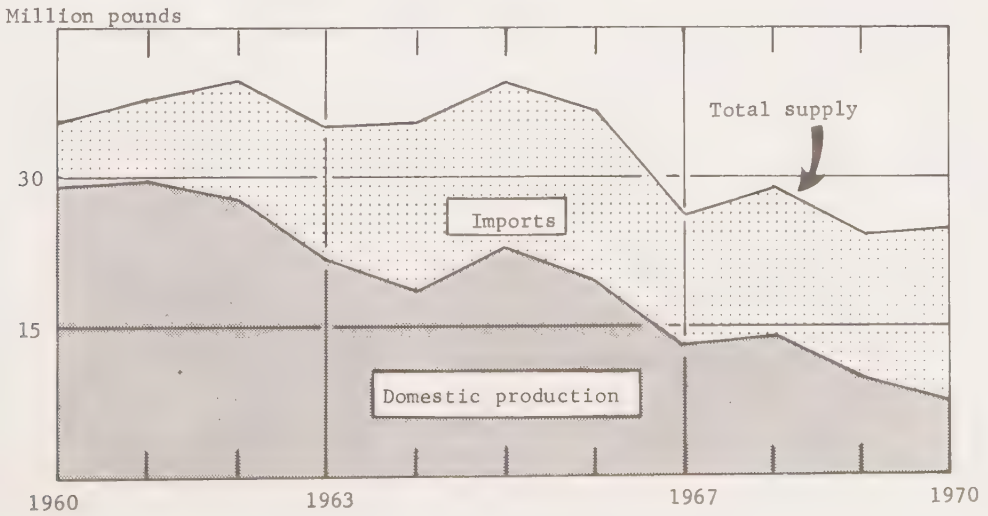
1/ Data not available. 2/ Partly estimated. * Record.

SUPPLY OF SCALLOP MEATS, 1959-70

Year	U.S. catch				Imports				Total for U.S. consumption
	Massachusetts	Other States	Total	Percent of total	Canada	Other countries	Total	Percent of total	
	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1959	19,530	6,306	25,836	83.5	3,265	1,842	5,107	16.5	30,943
1960	21,512	7,230	28,742	80.7	6,340	533	6,873	19.3	35,615
1961	*21,608	7,587	*29,195	77.1	8,555	97	8,652	22.9	37,847
1962	20,810	7,000	27,810	70.6	11,370	193	11,563	29.4	*39,373
1963	16,941	4,515	21,456	61.6	13,233	164	13,397	38.4	34,853
1964	14,051	4,750	18,801	53.8	15,527	648	16,175	46.2	34,976
1965	12,317	*10,484	22,801	58.0	15,315	1,180	16,495	42.0	39,296
1966	11,694	7,918	19,612	54.0	*16,590	122	16,712	46.0	36,324
1967	7,274	5,476	12,750	48.6	13,129	332	13,461	51.4	26,211
1968	8,196	7,202	15,398	51.4	13,177	1,404	14,581	48.6	29,979
1969	6,100	5,500	11,600	44.7	12,988	1,334	14,322	55.3	25,922
1970	4,300	5,400	9,700	36.6	11,700	5,130	*16,830	63.4	26,530

*Record.

SUPPLY OF SCALLOP MEATS, 1960-70



SUPPLY OF FRESH AND FROZEN SPINY LOBSTERS, 1959-70

Year	U.S. catch 1/	Imports 2/
	Thousand pounds	Thousand pounds
1959	3,698	28,092
1960	3,210	32,346
1961	3,235	32,610
1962	3,664	35,947
1963	4,180	34,048
1964	4,088	35,104
1965	6,237	37,814
1966	5,844	36,923
1967	4,868	35,340
1968	7,500	43,062
1969	7,900	*44,992
1970	*10,200	37,691

1/ Round weight. 2/ Imported weight, consisting largely of tails. *Record.

SUPPLY OF FRESH AND FROZEN NORTHERN LOBSTERS, 1959-70

Year	U.S. catch				Imports		Total supply
	Maine	Other States	Total	Percent of total	Total 1/	Percent of total	
	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1959	22,329	6,756	29,085	58	20,635	42	49,720
1960	24,014	7,154	31,168	59	21,403	41	*52,571
1961	20,918	7,080	27,998	57	21,299	43	49,297
1962	22,075	7,422	29,497	57	22,101	43	51,598
1963	22,804	7,470	30,274	58	21,847	42	52,121
1964	21,413	9,545	30,958	60	20,386	40	51,344
1965	18,862	11,384	30,246	62	18,597	38	48,843
1966	19,916	9,625	29,541	63	17,047	37	46,588
1967	16,489	10,256	26,745	63	15,568	37	42,313
1968	20,500	11,800	32,300	66	16,753	34	49,053
1969	19,835	11,765	31,600	64	17,447	36	49,047
1970	18,172	14,528	*32,700	65	17,163	35	49,863

1/ Record imports, 1951 (23,558,000 pounds). *Record.

SUPPLY OF CANNED CRAB MEAT, 1959-70

Year	U.S. pack	Percent of total supply	Imports 1/	Percent of total supply	Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1959	2,942	28.7	7,304	71.3	10,246
1960	4,115	47.7	4,507	52.3	8,622
1961	5,000	54.1	4,237	45.9	9,237
1962	5,621	61.6	3,505	38.4	9,126
1963	7,356	58.1	5,296	41.9	12,652
1964	6,567	59.3	4,508	40.7	11,075
1965	9,139	68.8	4,152	31.2	13,291
1966	*11,002	83.1	2,233	16.9	13,235
1967	9,707	81.8	2,160	18.2	11,867
1968	4,019	46.4	4,635	53.6	8,654
1969	5,016	62.3	3,035	37.7	8,051
1970	5,254	65.5	2,763	34.5	8,017

1/ Record imports, 1939, (13,507,000 pounds). *Record.

SUPPLY OF FISH MEAL, 1959-70

Year	U.S. production		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1959	306,551	69.8	132,925	30.2	439,476
1960	290,137	68.8	131,561	31.2	421,698
1961	311,265	58.8	217,845	41.2	529,110
1962	*312,259	55.3	252,307	44.7	564,566
1963	255,907	40.5	376,321	59.5	632,228
1964	235,252	34.9	439,143	65.1	674,395
1965	254,051	48.4	270,666	51.6	524,717
1966	223,821	33.3	447,784	66.7	671,605
1967	211,189	24.5	651,486	75.5	862,675
1968	235,136	21.6	*855,285	78.4	*1,090,421
1969	252,564	41.3	358,350	58.7	610,914
1970	276,962	52.4	251,492	47.6	528,454

*Record.

SUPPLY OF FISH SOLUBLES, 1959-70

Year	U.S. production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1959	*165,359	86.1	*26,630	13.9	*191,989
1960	98,929	96.9	3,174	3.1	102,103
1961	112,254	94.3	6,739	5.7	118,993
1962	124,649	95.2	6,308	4.8	130,957
1963	107,402	93.8	7,112	6.2	114,514
1964	93,296	95.4	4,505	4.6	97,801
1965	94,840	94.9	5,138	5.1	99,978
1966	83,441	95.1	4,308	4.9	87,749
1967	74,675	95.3	3,669	4.7	78,344
1968	71,833	97.6	1,773	2.4	73,606
1969	81,692	99.8	161	.2	81,853
1970	97,160	99.5	474	.5	97,634

1/ Includes homogenized condensed fish for 1959-63. *Record. Note:--Imports of solubles are understood to be on a wet-weight basis except for those from the Republic of South Africa, which are believed to be on a dry-weight basis.

SUPPLY OF FISH OILS, 1959-70

(Excluding liver, whale, and sperm oil)

Year	U.S. production	Imports	Total supply	Exports	Total for U.S. consumption
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1959	183,177	6,750	189,927	144,481	45,446
1960	205,619	8,932	214,551	143,659	70,892
1961	254,596	8,385	262,981	122,486	140,495
1962	247,464	10,755	258,219	123,050	135,169
1963	183,673	8,579	192,252	262,342	-70,090
1964	177,015	11,828	188,843	151,469	37,374
1965	192,773	5,989	198,762	103,807	94,955
1966	162,680	12,664	175,344	77,255	98,089
1967	119,915	6,959	126,874	76,816	50,058
1968	171,678	5,878	177,556	65,129	112,427
1969	168,046	4,206	172,252	196,073	-23,821
1970	193,743	5,173	198,916	158,787	40,129

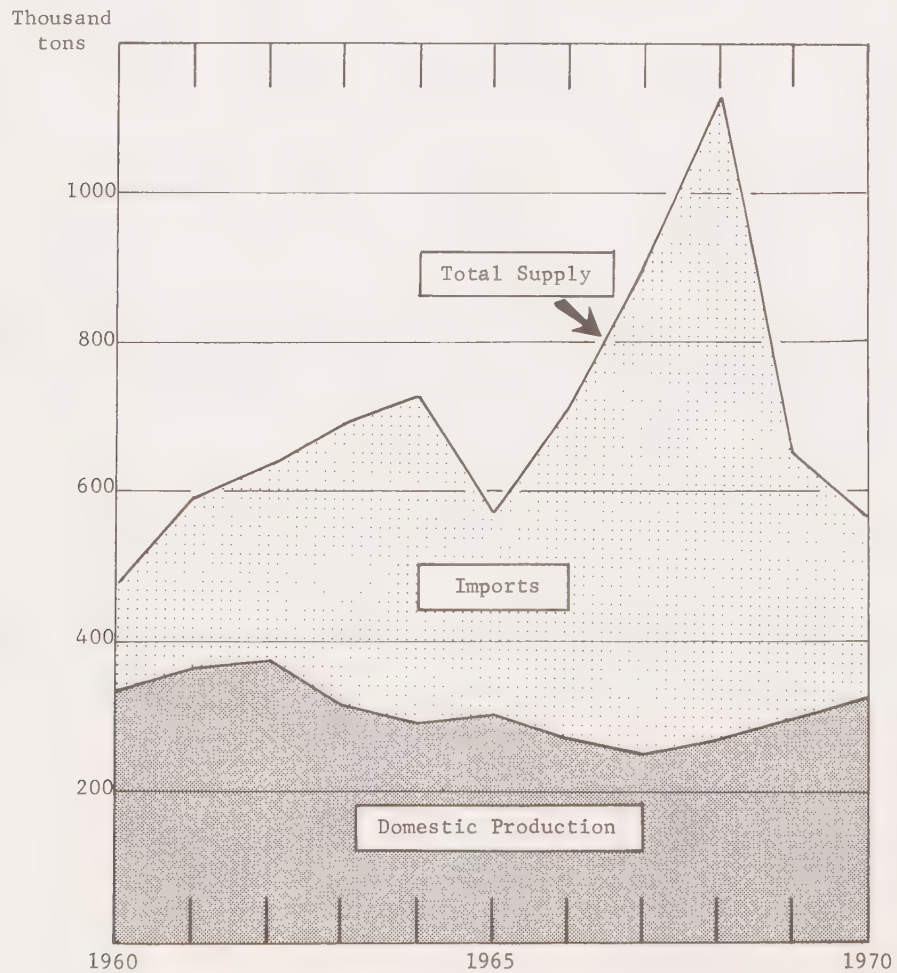
SUPPLY OF FISHERY PRODUCTS

SUPPLY OF FISH MEAL AND SOLUBLES, 1959-70

Year	U.S. production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1959	*389,231	72.5	147,392	27.5	536,623
1960	339,601	71.8	133,349	28.2	472,950
1961	367,392	62.3	221,923	37.7	589,315
1962	374,583	59.4	256,284	40.6	630,867
1963	309,608	44.9	380,132	55.1	689,740
1964	281,900	38.9	441,889	61.1	723,789
1965	301,471	52.9	268,097	47.1	569,568
1966	265,541	37.1	449,939	62.9	715,480
1967	248,527	27.6	653,320	72.4	901,847
1968	271,053	24.0	*856,171	76.0	*1,127,224
1969	293,410	45.0	358,430	55.0	651,840
1970	325,542	56.4	251,729	43.6	577,271

1/ Includes homogenized condensed fish for 1959-63. *Record. Note:--Wet weight of solubles and homogenized condensed fish have been converted to dry weight by reducing their poundage by one-half.

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1960-70



PURCHASES OF FRESH, FROZEN, AND CANNED FISHERY PRODUCTS, BY DEFENSE SUBSISTENCE SUPPLY CENTERS, 1950-70

Year	Fresh and frozen		Canned
	Thousand pounds	Thousand dollars	Thousand pounds
1950	17,884	7,399	(1)
1951	31,844	13,771	(1)
1952	32,276	15,050	(1)
1953	26,769	11,857	(1)
1954	25,290	10,395	(1)
1955	24,989	10,929	(1)
1956	26,610	13,413	(1)
1957	23,452	12,080	6,037
1958	22,511	12,850	9,473
1959	22,651	11,624	5,834
1960	22,917	11,839	7,350
1961	23,450	12,470	8,615
1962	23,356	14,388	9,024
1963	23,400	13,017	7,067
1964	26,341	15,040	8,777
1965	27,712	18,685	14,145
1966	31,283	23,071	12,861
1967	32,097	22,991	14,942
1968	28,706	25,215	14,241
1969	22,000	20,700	8,080
1970	18,419	16,734	8,135

1/ Data not available. Note:--Armed forces installations generally make some local purchases not included in the above data. Source:--U.S. Department of Defense.

PURCHASES OF PRINCIPAL FRESH AND FROZEN FISHERY PRODUCTS BY DEFENSE SUBSISTENCE SUPPLY CENTERS, 1969-70

Product	1969	1970
	Thousand pounds	Thousand pounds
Shrimp:		
Raw headless	859	570
Peeled and deveined	1,295	598
Breaded	4,829	3,610
Molded and breaded	586	427
Total	7,569	5,205
Scallops	988	883
Oysters:		
Eastern	779	810
Pacific	542	421
Total	1,321	1,231
Fillets:		
Cod	179	120
Flounders	1,592	1,328
Ocean perch	2,062	1,485
Haddock	591	455
Portions:		
Haddock - cod	2,285	2,216
Flounder - ocean perch	2,932	3,059
Steaks:		
Halibut	680	408
Salmon	162	127
Spiny lobster tails	809	582

Note:--Armed Forces installations generally make some local purchases not included in the above data. Source:--U.S. Department of Defense.

PRICES RECIEVED BY FISHERMEN

Average prices paid to fishermen, as measured by the following indexes, were up 7 percent from 1969 and were 50 percent above the 1957-59 average. The index for finfish rose 12 percent, but that for shellfish remained the same. New England finfish and tuna showed sharp increases while salmon and industrial fish prices rose moderately. Shrimp prices increased 1 percent while prices for other shellfish showed a slight decrease.

INDEXES OF EXVESSEL PRICES RECEIVED BY FISHERMEN, BY MONTHS, 1970 (1957-59=100)

Group	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
New England finfish.	210	213	190	144	121	151	170	194	174	163	186	194
Salmon	143	143	143	137	137	135	139	141	141	141	142	138
Tuna	127	130	130	125	134	138	144	145	147	147	148	149
Industrial fish. . .	122	122	122	122	130	130	130	130	130	130	130	130
All finfish. . . .	152	153	147	133	131	139	146	153	149	146	152	153
Shrimp	166	179	172	169	131	107	111	123	127	134	132	151
Other shellfish. . .	165	164	162	162	164	162	169	173	165	163	164	165
All shellfish. . .	165	170	166	165	150	139	144	152	149	150	151	159
All fish. . . .	158	161	156	147	140	139	146	153	149	148	151	156

Note:--Monthly prices for species representing approximately two-thirds of the total landed value of all fish and shellfish during recent years have been combined into index groups to indicate movement of prices received by fishermen. Source:--Division of Current Economic Analysis.

INDEXES OF EXVESSEL PRICES RECEIVED BY FISHERMEN, 1964-70 1/ (1957-59=100)

Group	1964	1965	1966	1967	1968	1969	1970
New England finfish.	87	98	108	109	116	137	176
Salmon	111	110	112	117	121	137	140
Tuna	95	100	123	104	116	122	139
Industrial fish. . .	108	120	126	108	102	122	127
All finfish. . . .	100	107	116	110	114	130	146
Shrimp	95	103	128	122	129	140	142
Other shellfish. . .	108	117	106	119	142	166	165
All shellfish. . .	102	111	115	120	136	155	155
All fish. . . .	101	109	116	114	124	140	150

1/ Simple averages of the 12 months. Source:--Division of Current Economic Analysis.

WHOLESALE PRICES

WHOLESALE AVERAGE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1970

Group, subgroup, and item specification	Point of pricing	Unit	Jan.	Feb.	Mar.	Apr.	May	June
			Dollars					
FRESH AND FROZEN FISHERY PRODUCTS:								
Haddock, large, offshore, drawn, fresh	Boston	1b.	.37	.38	.24	.23	.15	.20
Halibut, west., 20/80 lbs., dressed, fresh or frozen	New York	1b.	.58	.58	.57	.57	.59	.61
Salmon, king, large & medium, dressed, fresh or frozen	New York	1b.	1.28	1.28	1.28	1.28	1.31	1.32
Whitefish, L. Superior, drawn, fresh	Chicago	1b.	.76	.88	.89	.96	.71	.71
Yellow pike, L. Michigan & Huron, round, fresh	New York	1b.	.80	.79	.88	1.08	.90	.85
PROCESSED, FRESH (Fish & Shellfish):								
Fillets, haddock, small, skins on, 20-1b. tins	Boston	1b.	1.15	1.13	.70	.68	.56	.75
Shrimp, large (26-30 count), headless, fresh	New York	1b.	1.37	1.45	1.53	1.40	1.40	1.45
Oysters, shucked, standards	Norfolk	gal.	8.50	8.50	8.25	8.25	8.25	8.25
PROCESSED, FROZEN (Fish & shellfish):								
Fillets: Flounder, skinless, 1-1b. package	Boston	1b.	.58	.54	.54	.54	.54	.54
Haddock, small, skins on, 1-1b. package	Boston	1b.	.55	.55	.55	.55	.54	.54
Ocean perch, large, skins on, 1-1b. package	Boston	1b.	.36	.36	.36	.37	.38	.37
Shrimp, large (26-30 count), brown, 5-1b. package	Chicago	1b.	1.31	1.33	1.32	1.32	1.33	1.35
Shrimp, raw, breaded, (15-20 count), 4-1b.	Selected areas	1b.	1.22	1.22	1.22	1.22	1.21	1.21
Fish blocks, cod, raw, 13-1/2 - 16-1b. ctn.	Selected areas	1b.	.26	.27	.27	.28	.29	.30
Fish sticks, cod, precooked, breaded, 1/2-1-1b. pkg.	Selected areas	1b.	.54	.54	.54	.54	.55	.55
Fish portions, cod, raw, breaded, 6-1b. pkg.	Selected areas	1b.	.37	.38	.38	.39	.40	.40
CANNED FISHERY PRODUCTS:								
Salmon, pink, No. 1 tall (16 oz.) 48 cans/cs	Seattle	cs.	32.50	30.50	32.50	32.50	32.50	32.50
Tuna, light meat, chunk, No. 1/2 tuna (6-1/2 oz.) 48 cans/cs.	Los Angeles	cs.	14.61	14.61	14.61	14.85	14.85	14.85
Mackerel, jack, California, No. 1 tall (15 oz.) 48 cans/cs	Los Angeles	cs.	8.50	8.50	8.50	8.50	8.50	8.50
Sardines, Maine, keyless oil, 1/4 drawn (3-3/4 oz.) 100 cans/cs.	New York	cs.	12.63	13.50	13.50	13.50	13.50	13.50

(Continued on next page)

WHOLESALE AVERAGE PRICES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1970 - Continued

Group, subgroup, and item specification	Point of pricing	Unit	July	Aug.	Sept.	Oct.	Nov.	Dec.
			. . . . . Dollars					
FRESH AND FROZEN FISHERY PRODUCTS:								
Haddock, large, offshore, drawn, fresh.	Boston	lb.	.24	.31	.33	.21	.40	.48
Halibut, west., 20/80 lbs., dressed, fresh or frozen	New York	lb.	.61	.61	.63	.66	.58	.54
Salmon, king, large & medium, dressed, fresh or frozen	New York	lb.	1.40	1.44	1.44	1.40	1.40	1.36
Whitefish, L. Superior, drawn, fresh.	Chicago	lb.	.69	.70	.70	.63	.69	.70
Yellow pike, L. Michigan & Huron, round, fresh	New York	lb.	.92	.90	.93	.90	.90	.89
PROCESSED, FRESH (Fish & shellfish):								
Fillets, haddock, small, skins on, 20-lb. tins.	Boston	lb.	.89	.95	.97	.74	1.03	1.45
Shrimp, large (26-30 count), headless, fresh.	New York	lb.	1.25	1.20	1.25	1.25	1.15	1.25
Oysters, shucked, standards . . .	Norfolk	gal.	8.50	8.50	8.38	8.38	8.38	8.38
PROCESSED, FROZEN (Fish & shellfish):								
Fillets: Flounder, skinless, 1-lb. package.	Boston	lb.	.54	.53	.54	.54	.54	.53
Haddock, small, skins on, 1-lb. package. . .	Boston	lb.	.54	.54	.55	.55	.56	.58
Ocean perch, large, skins on, 1-lb. package.	Boston	lb.	.37	.37	.37	.39	.39	.38
Shrimp, large (26-30 count), brown, 5-lb. package	Chicago	lb.	1.27	1.27	1.14	1.15	1.16	1.17
Shrimp, raw, breaded (15-20 count), 4-lb. pkg.	Selected areas	lb.	1.20	1.17	1.14	1.12	1.12	1.14
Fish blocks, cod, raw, 13-1/2 - 16-lb. ctn.	Selected areas	lb.	.30	.30	.30	.32	.38	.41
Fish sticks, cod, precooked, breaded, 1/2-1-lb. pkg.	Selected areas	lb.	.55	.56	.56	.56	.58	.59
Fish portions, cod, raw, breaded, 6-lb. pkg.	Selected areas	lb.	.42	.42	.42	.42	.45	.47
CANNED FISHERY PRODUCTS:								
Salmon, pink, No. 1 tall (16 oz.) 48 cans/cs	Seattle	cs.	32.50	32.50	33.50	33.50	33.50	33.50
Tuna, light meat, chunk, No. 1/2 tuna (6-1/2 oz.) 48 cans/cs. . .	Los Angeles	cs.	15.60	15.60	15.85	16.35	16.35	16.35
Mackerel, jack, California, No. 1 tall (15 oz.) 48 cans/cs	Los Angeles	cs.	8.50	8.50	8.50	8.63	8.63	8.63
Sardines, Maine, keyless oil, 1/4 drawn (3-3/4 oz.) 100 cans/cs. .	New York	cs.	13.50	14.25	15.25	15.25	15.25	15.25

Note:--Represent average prices for one day (Monday or Tuesday) during the week in which the 13th of the month occurs. These prices are published as indicators of movement and not necessarily absolute level. Daily Market News Service "Fishery Products Reports" should be referred to for actual prices.

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

WHOLESALE PRICE INDEXES FOR EDIBLE FISH AND SHELLFISH, BY MONTHS, 1970

Group	Jan.	Feb.	Mar.	Apr.	May	June
	Index, 1957-59=100					
All fish and shellfish (fresh, frozen, and canned)	158.6	160.0	155.8	154.3	151.1	154.9
Fresh and frozen fishery products	168.6	171.7	163.7	160.9	156.0	161.8
Drawn, dressed, or whole finfish	195.9	199.0	174.4	177.2	161.0	170.5
Processed, fresh (fish and shellfish)	168.7	174.7	169.7	159.6	157.0	165.0
Processed, frozen (fish and shellfish)	145.6	146.0	145.6	146.4	146.3	147.7
Canned fishery products	140.3	138.3	141.5	142.6	142.6	142.6

Group	July	Aug.	Sept.	Oct.	Nov.	Dec.
All fish and shellfish (fresh, frozen, and canned)	154.6	156.5	158.0	153.8	158.9	165.4
Fresh and frozen fishery products	159.5	161.9	161.9	154.4	162.1	172.1
Drawn, dressed, or whole finfish	182.4	198.4	202.7	179.0	208.7	218.8
Processed, fresh (fish and shellfish)	153.9	151.3	155.2	149.9	148.7	166.0
Processed, frozen (fish and shellfish)	144.7	143.3	137.3	137.9	139.9	142.8
Canned fishery products	146.2	147.2	151.3	153.7	153.7	153.7

Source:--U.S. Department of Labor, Bureau of Labor Statistics.

PRICES

RETAIL PRICES

Estimated retail prices of fishery products are collected by the Bureau of Labor Statistics of the U.S. Department of Labor for use in the food component of the Consumer Price Index.

The Consumer Price Index (CPI) is based on prices from a sample of 39 standard Metropolitan Statistical Areas and 17 small cities collected to represent all urban areas of the United States, ranging in size from cities with a population of 2,500 to New York City. Agents collect monthly food prices from chain and independent retail food stores that voluntarily report their selling prices. Prices are those in effect on the day of the agent's visit and include any sale or weekend special prices which are offered on that day. The Bureau's agents use a description defining the quality or grade and size range for each food for which prices are collected. All prices are converted to a standard unit and population weights are employed in obtaining United States average prices for all areas combined.

RETAIL PRICES OF FISHERY PRODUCTS, 1969-70

Item		Jan.	Feb.	Mar.	April	May	June
CONSUMER PRICE INDEX FOR FISH (1957-59=100)	1969	127.0	127.7	127.7	128.4	129.5	129.8
	1970	137.0	138.3	139.8	141.1	142.3	143.2
RETAIL PRICES, U.S. AVERAGES:				. . . cents per unit . . .			
Shrimp, frozen, 10 oz. (41 cities)	1969	90.2	91.7	92.3	92.9	94.3	95.1
	1970	101.3	101.7	102.2	102.0	102.3	102.7
Ocean Perch, fillet, frozen, lb. (38 cities)	1969	54.6	53.8	53.8	54.2	54.7	55.3
	1970	59.9	61.3	61.6	63.2	63.3	63.8
Haddock fillet, frozen, lb. (33 cities)	1969	69.1	70.1	70.1	71.3	72.6	73.4
	1970	81.4	83.5	85.3	86.0	87.4	88.4
Tuna, 6-1/2 oz. can (44 cities)	1969	35.1	35.4	35.1	35.3	35.6	35.5
	1970	37.5	37.8	38.3	38.7	39.2	39.4
Sardines, 4 oz. can (43 cities)	1969	16.3	16.5	16.4	16.5	16.4	16.5
	1970	16.5	16.6	16.6	16.9	17.1	17.3

Item		July	Aug.	Sept.	Oct.	Nov.	Dec.
CONSUMER PRICE INDEX FOR FISH (1957-59=100)	1969	130.6	131.5	132.2	133.4	134.0	135.4
	1970	143.4	144.5	146.0	147.9	149.6	151.5
RETAIL PRICES, U.S. AVERAGES:				. . . cents per unit . . .			
Shrimp, frozen, 10 oz. (41 cities)	1969	95.8	96.8	97.3	98.4	98.8	99.8
	1970	102.3	101.8	102.0	101.6	101.2	100.4
Ocean perch, fillet, frozen, lb. (38 cities)	1969	55.4	56.2	57.0	57.5	57.8	58.4
	1970	64.0	64.7	65.6	66.3	66.6	68.5
Haddock fillet, frozen, lb. (33 cities)	1969	74.6	75.9	76.8	77.6	78.3	79.7
	1970	89.0	89.4	90.0	90.9	91.5	92.6
Tuna, 6-1/2 oz. can (44 cities)	1969	35.4	35.7	35.8	36.3	36.5	36.9
	1970	39.4	40.1	40.7	41.7	42.2	42.7
Sardines, 4 oz. can (43 cities)	1969	16.5	16.4	16.5	16.6	16.6	16.6
	1970	17.2	17.4	17.8	18.2	18.7	19.0

Source:--Department of Labor, Bureau of Labor Statistics.

VALUE OF PROCESSED FISHERY PRODUCTS AT PROCESSOR'S LEVEL, 1969-70 1/
(Processed from domestic catch and imported products)

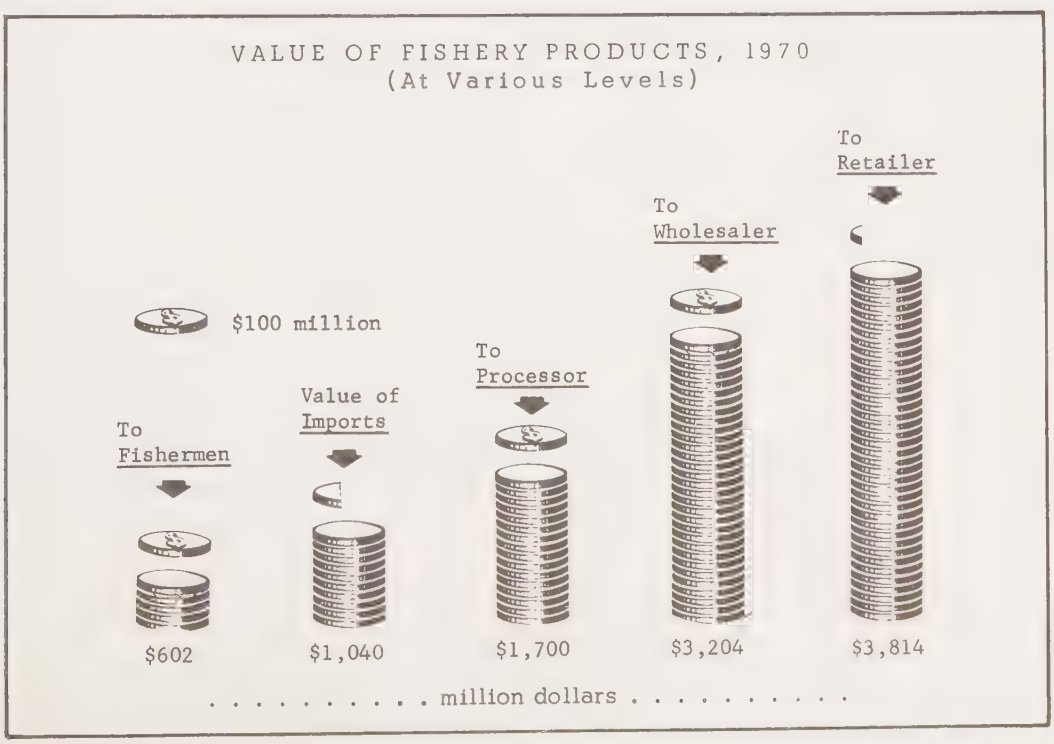
Item	1969		1970	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Canned	580,812	39.3	750,662	44.2
Packaged:				
Fillets and steaks	69,584	4.7	75,430	4.4
Fish sticks	51,242	3.5	57,720	3.4
Fish portions	83,719	5.6	97,570	5.7
Breaded shrimp	111,960	7.6	109,009	6.4
Other (fish and shellfish)	445,084	30.1	459,864	27.1
Cured	52,000	3.5	50,000	2.9
Industrial products	84,599	5.7	100,145	5.9
Total	1,479,000	100.0	1,700,400	100.0

1/ Preliminary.

ESTIMATED VALUE OF FISHERY PRODUCTS AT VARIOUS LEVELS, 1969-70 1/

Item	1969			1970		
	Domestic fisheries	Imports	Total	Domestic fisheries	Imports	Total
	Million dollars	Million dollars	Million dollars	Million dollars	Million dollars	Million dollars
Producer (fishermen)	519	-	519	602	-	602
Imports (declared value)	-	844	844	-	1,040	1,040
Processor	940	539	1,479	952	748	1,700
Wholesaler	1,235	1,356	2,591	1,433	1,771	3,204
Retailer	1,609	1,492	3,101	1,866	1,948	3,814

1/ Preliminary.



U.S. CUSTOMS DUTIES

IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1936-70

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars	Percent	Percent
1936. . . .	41,873	2,423,977	6,545	400,558	15.6	16.5
1937. . . .	50,636	3,009,852	8,254	465,253	16.3	15.5
1938. . . .	39,307	1,949,624	5,701	293,070	14.5	15.0
1939. . . .	45,999	2,276,099	6,015	316,372	13.1	13.9
1940. . . .	41,830	2,540,656	4,772	305,609	11.4	12.0
1941. . . .	40,981	3,221,954	3,888	413,846	9.5	12.8
1942. . . .	39,568	2,780,317	2,714	323,409	6.9	11.6
1943. . . .	67,183	3,390,101	3,523	395,030	5.2	11.7
1944. . . .	78,418	3,887,490	4,386	382,109	5.6	9.8
1945. . . .	101,254	4,098,101	6,979	391,476	6.9	9.6
1946. . . .	129,713	4,824,902	8,047	498,001	6.2	10.3
1947. . . .	109,975	5,666,321	6,895	445,355	6.3	7.9
1948. . . .	156,648	7,092,032	8,694	417,401	5.6	5.9
1949. . . .	151,614	6,591,640	7,560	374,291	5.0	5.7
1950. . . .	198,296	8,743,082	12,484	529,621	6.3	6.1
1951. . . .	212,457	10,817,341	10,346	603,468	4.9	5.6
1952. . . .	240,429	10,747,497	11,982	574,733	5.0	5.3
1953. . . .	245,480	10,778,905	14,026	597,760	5.7	5.5
1954. . . .	252,409	10,239,517	14,405	556,936	5.7	5.4
1955. . . .	258,869	11,336,787	14,530	669,579	5.6	5.9
1956. . . .	282,730	12,515,747	15,504	739,228	5.5	5.9
1957. . . .	299,275	12,950,606	15,955	776,884	5.3	6.0
1958. . . .	330,781	12,739,429	16,645	832,155	5.0	6.5
1959. . . .	370,117	14,993,594	17,737	1,066,536	4.8	7.1
1960. . . .	363,281	14,650,000	15,857	1,084,000	4.4	7.4
1961. . . .	400,619	14,657,000	16,904	1,057,000	4.2	7.2
1962. . . .	489,807	16,241,000	17,910	1,220,000	3.7	7.5
1963. . . .	500,712	17,014,000	17,660	1,236,000	3.5	7.3
1964. . . .	564,243	18,600,300	22,035	1,583,000	3.9	8.5
1965. . . .	600,904	21,281,800	22,595	1,639,921	3.8	7.7
1966. . . .	719,702	25,360,330	24,812	1,919,514	3.4	7.6
1967. . . .	707,883	26,733,200	24,709	2,016,400	3.5	7.5
1968. . . .	822,669	32,991,700	25,455	2,341,100	3.1	7.1
1969. . . .	844,293	35,870,400	25,421	2,551,200	3.0	7.1
1970. . . .	1,039,622	39,767,700	24,970	2,584,100	2.4	6.5

Per capita utilization of all commercially-caught fish and shellfish is based on the total supply of fishery products, both edible and industrial, (see page 42) on a round weight equivalent basis, without taking into consideration beginning or ending stocks, exports, defense purchases, or shipments to United States territories.

Per capita utilization figures are not comparable with per capita consumption data (see pages 64-65). Per capita consumption figures are derived from using an edible (for human use) meat-weight basis rather than round weight. In addition, the determination of consumption includes allowances for beginning and ending stocks, exports, defense purchases, and shipments to U.S. territories, whereas the determination of utilization does not include such allowances.

Both per capita consumption and per capita utilization are derived by using civilian resident population as of July 1 each year.

TOTAL PER CAPITA UTILIZATION, 1950-70

Year	Total U.S. supply 1/	Civilian resident population	Per capita utilization		
			Domestic catch	Imports	Total
	Million pounds	Million persons	Pounds	Pounds	Pounds
1950	6,547	150.8	32.5	10.9	43.4
1951	6,757	151.6	29.3	15.3	44.6
1952	7,636	153.9	28.8	20.8	49.6
1953	7,015	156.6	28.7	16.1	44.8
1954	7,593	159.7	29.8	17.7	47.5
1955	7,121	163.0	29.5	14.2	43.7
1956	7,569	166.1	31.7	13.9	45.6
1957	7,164	169.1	28.3	14.1	42.4
1958	7,526	172.2	27.6	16.1	43.7
1959	8,460	175.3	29.2	19.1	48.3
1960	8,223	178.2	27.7	18.4	46.1
1961	9,570	181.2	28.6	24.2	52.8
1962	10,408	183.8	29.1	27.5	56.6
1963	11,434	186.7	25.9	35.3	61.2
1964	12,031	189.4	24.0	39.5	63.5
1965	10,535	191.9	24.9	30.0	54.9
1966	12,469	193.8	22.5	41.8	64.3
1967	13,991	195.7	20.7	50.8	71.5
1968	17,337	197.6	20.8	66.9	87.7
1969	11,802	199.7	21.5	37.6	59.1
1970 2/	11,460	202.2	24.2	32.5	56.7

1/ Includes the commercial catch of both edible and industrial fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, exports, defense purchases, or shipments to U.S. territories.
2/ Preliminary.

PER CAPITA CONSUMPTION

PER CAPITA CONSUMPTION OF COMMERCIALLY-CAUGHT FISH AND SHELLFISH, 1916-70

(Pounds of edible meat)

Year	Fresh and frozen 1/	Canned 2/	Cured 3/	Total
	Pounds	Pounds	Pounds	Pounds
1916	6.0	2.2	2.8	11.0
1917	6.2	2.0	2.7	10.9
1918	6.4	2.0	2.5	10.9
1919	6.4	2.8	2.4	11.6
1920	6.3	3.2	2.3	11.8
1921	6.2	2.2	2.1	10.5
1922	6.1	3.2	2.0	11.3
1923	6.0	2.9	1.8	10.7
1924	6.1	3.2	1.7	11.0
1925	6.3	3.2	1.6	11.1
1926	6.6	3.4	1.4	11.4
1927	7.0	3.9	1.3	12.2
1928	7.1	3.9	1.1	12.1
1929	6.9	3.9	1.1	11.9
1930	5.8	3.4	1.0	10.2
1931	4.9	3.2	.7	8.8
1932	4.3	3.4	.7	8.4
1933	4.2	3.9	.6	8.7
1934	4.3	4.2	.7	9.2
1935	5.1	4.7	.7	10.5
1936	5.2	5.8	.7	11.7
1937	5.6	5.3	.9	11.8
1938	5.2	4.8	.8	10.8
1939	5.3	4.7	.7	10.7
1940	5.7	4.6	.7	11.0
1941	6.3	4.2	.7	11.2
1942	5.2	2.9	.6	8.7
1943	5.5	1.8	.6	7.9
1944	5.5	2.6	.6	8.7
1945	6.6	2.6	.7	9.9
1946	5.9	4.2	.7	10.8
1947	5.8	3.8	.7	10.3
1948	6.0	4.4	.7	11.1
1949	5.8	4.5	.6	10.9
1950	6.3	4.9	.6	11.8
1951	6.3	4.3	.6	11.2
1952	6.2	4.3	.7	11.2
1953	6.4	4.3	.7	11.4
1954	6.2	4.3	.7	11.2
1955	5.9	3.9	.7	10.5
1956	5.7	4.0	.7	10.4
1957	5.5	4.0	.7	10.2
1958	5.7	4.3	.6	10.6
1959	5.9	4.4	.6	10.9
1960	5.7	4.0	.6	10.3
1961	5.9	4.3	.5	10.7
1962	5.8	4.3	.5	10.6
1963	5.7	4.4	.5	10.6
1964	5.9	4.1	.5	10.5
1965	6.0	4.4	.5	10.9
1966	6.0	4.3	.5	10.8
1967	6.0	4.3	.5	10.8
1968	6.2	4.3	.5	11.0
1969 4/	6.4	4.2	.5	11.1
1970 4/	6.6	4.4	.4	11.4

1/ Fresh and frozen fish consumption in the period 1916-28 are based on a straight-line projection. 2/ Canned fish consumption estimates 1916-20 based on a straight-line projection, adjusted for heavy export and military takings of canned fish from 1916-18; beginning in 1921 based on production reports, paper stocks, and foreign trade statistics for individual years. 3/ Cured fish estimates 1916-20 based on a straight-line projection. 4/ Preliminary.

PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1936-40 AND 1946-70

Year	Mackerel, Pacific and jack	Salmon	Sardines, Maine and Pacific 1/	Tuna 2/	Shellfish	Other	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1936. . .	.5	3.0	1.3	.4	.4	.2	5.8
1937. . .	.3	2.6	1.3	.5	.4	.2	5.3
1938. . .	.3	2.4	1.0	.5	.4	.2	4.8
1939. . .	.3	2.1	1.1	.6	.5	.1	4.7
1940. . .	.4	2.0	1.0	.6	.5	.1	4.6
1946. . .	.3	1.4	1.1	.7	.4	.3	4.2
1947. . .	.4	1.3	.9	.8	.2	.2	3.8
1948. . .	.4	1.6	1.1	.9	.3	.1	4.4
1949. . .	.3	1.6	1.2	.9	.3	.2	4.5
1950. . .	.4	1.4	1.4	1.1	.4	.2	4.9
1951. . .	.3	1.4	.8	1.2	.4	.2	4.3
1952. . .	.4	1.4	.5	1.3	.3	.4	4.3
1953. . .	.2	1.3	.7	1.4	.4	.3	4.3
1954. . .	.1	1.1	.8	1.4	.4	.5	4.3
1955. . .	.2	1.0	.6	1.4	.4	.3	3.9
1956. . .	.2	1.1	.4	1.6	.4	.3	4.0
1957. . .	.3	1.0	.4	1.6	.4	.3	4.0
1958. . .	.1	1.1	.6	1.8	.4	.3	4.3
1959. . .	.1	.9	.6	1.9	.5	.4	4.4
1960. . .	.2	.7	.4	2.0	.4	.3	4.0
1961. . .	.2	.8	.5	2.1	.4	.3	4.3
1962. . .	.3	.9	.3	2.1	.4	.3	4.3
1963. . .	.3	.9	.4	2.0	.5	.3	4.4
1964. . .	.2	.7	.3	2.0	.5	.4	4.1
1965. . .	.2	.9	.3	2.3	.5	.2	4.4
1966. . .	.2	.8	.4	2.3	.4	.2	4.3
1967. . .	.2	.5	.4	2.4	.5	.3	4.3
1968. . .	.2	.7	.4	2.4	.4	.2	4.3
1969 3/ . .	.2	.7	.4	2.4	.3	.2	4.2
1970 3/ . .	.2	.7	.4	2.5	.4	.2	4.4

1/ Includes imports of some canned herring for the years prior to 1950. 2/ Includes imports of bonito and yellowtail for the years prior to 1949. 3/ Preliminary.

PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1936-40 AND 1946-70
(Pounds of edible meat)

Year	Groundfish and ocean perch fillets and blocks 1/	Shrimp 2/	Year	Groundfish and ocean perch fillets and blocks 1/	Shrimp 2/
	Raw, fresh and frozen	Raw, all preparations		Raw, fresh and frozen	Raw, all preparations
1936. . .	0.74	0.35	1955. . .	1.50	0.95
1937. . .	0.74	0.45	1956. . .	1.41	0.90
1938. . .	0.77	0.45	1957. . .	1.54	0.81
1939. . .	0.79	0.48	1958. . .	1.50	0.87
1940. . .	0.81	0.52	1959. . .	1.46	1.05
			1960. . .	1.44	1.09
1946. . .	0.14	0.76	1961. . .	1.62	1.05
1947. . .	1.14	0.69	1962. . .	1.69	1.04
1948. . .	1.26	0.69	1963. . .	1.62	1.16
1949. . .	1.32	0.71	1964. . .	1.72	1.18
1950. . .	1.30	0.72	1965. . .	1.80	1.27
1951. . .	1.58	0.84	1966. . .	1.87	1.25
1952. . .	1.47	0.89	1967. . .	1.84	1.35
1953. . .	1.40	0.89	1968. . .	2.18	1.43
1954. . .	1.50	0.91	1969 3/ . .	2.32	1.40
	(continued above)		1970 3/ . .	2.93	1.50

1/ Imports and frozen inventories not available prior to 1939. Includes species other than groundfish. 2/ Frozen inventories not available prior to 1939. Weight based on uncooked edible meat. 3/ Preliminary.

ANNUAL PER CAPITA SUPPLY OF FISH AND SHELLFISH, BY REGION AND COUNTRY

LATEST AVAILABLE DATA

Region and country	Period	Estimated edible weight in pounds
Europe:		
Albania	1964-66	2.4
Austria	1968-69	8.0
Belgium-Luxembourg	1967-68	19.3
Bulgaria	1964-66	4.8
Czechoslovakia	1964-66	7.2
Denmark	1968-69	46.7
Finland	1968-69	28.2
France	1967	20.1
Germany, East	1964-66	18.5
Germany, Federal Republic of	1968-69	10.5
Greece	1967	22.5
Hungary	1968	2.4
Iceland	1964-66	86.1
Ireland	1968	10.5
Italy	1968-69	14.5
Malta	1964-66	7.2
Netherlands	1968-69	12.1
Norway	1968-69	43.5
Poland	1964-66	20.9
Portugal	1968	49.1
Romania	1964-66	3.2
Spain	1968-69	30.6
Sweden	1967-68	45.1
Switzerland	1967-68	10.0
United Kingdom	1968-69	20.9
Yugoslavia	1967	1.6
Union of Soviet Socialist Republics	1964-66	22.5
North America:		
Canada	1967	13.7
United States	1970	11.4
Latin America:		
Barbados	1966	29.8
Brazil	1966	5.6
Chile	1964-66	13.7
Colombia	1964-66	3.2
Costa Rica	1966	4.0
Dominican Republic	1964-66	5.6
Ecuador	1964-66	7.2
El Salvador	1966	1.6
Guatemala	1966	2.4
Guyana	1964-66	54.7
Honduras	1966	1.0
Jamaica	1964-66	20.9
Mexico	1964-66	6.4
Nicaragua	1966	3.2
Panama	1968	20.9
Paraguay	1960-62	1.0
Peru	1966	17.7
Surinam	1967	18.5
Trinidad-Tobago	1964-66	52.3
Uruguay	1964-66	5.6
Venezuela	1966	25.8
Near East:		
Iraq	1960-62	1.6
Israel	1967-68	14.5
Jordan	1964-66	1.6
Lebanon	1966	4.0
Libya	1968	4.8
Saudi Arabia	1964-66	4.0
Sudan	1964-66	2.4
Syria	1964-66	1.6
Turkey	1964-66	4.0
United Arab Republic	1966-67	4.0

(Continued on next page)

ANNUAL PER CAPITA SUPPLY OF FISH AND SHELLFISH, BY REGION AND COUNTRY

LATEST AVAILABLE DATA - Continued

Region and country	Period	Estimated edible weight in pounds
Far East:		
Burma	1964-66	16.9
Cambodia	1964-66	28.2
Ceylon	1968	16.1
China (Mainland)	1964-66	8.0
China (Taiwan)	1968	33.0
Hong Kong	1964-66	46.7
India	1966-68	2.4
Indonesia	1963-65	18.5
Japan	1968	71.6
Korea, Republic of	1967	27.4
Laos	1964-66	1.6
Malaysia	1964-66	26.6
Nepal	1964-66	1.6
Pakistan	1967-68	4.0
Philippines	1968	43.4
Singapore	1964-66	46.7
Thailand	1964-66	18.5
Vietnam, North	1964-66	26.6
Vietnam, Republic of	1964-66	25.8
Africa:		
Algeria	1964-66	1.6
Burundi	1964-66	4.8
Cameroon	1961-63	13.7
Central African Republic	1961-63	21.7
Chad	1961-63	28.2
Congo (Brazzaville)	1961-63	67.6
Congo, Democratic Republic of	1961-63	21.7
Dahomey	1964-66	9.6
Ethiopia	1964-66	3.2
Gabon	1964-66	21.7
Gambia	1964-66	26.6
Ghana	1964-66	16.9
Guinea	1964-66	4.8
Ivory Coast	1964-66	16.9
Kenya	1964-66	3.2
Liberia	1964-66	12.1
Madagascar	1964-66	8.0
Malawi	1964-66	3.2
Mali	1964-66	8.8
Mauritania	1964-66	14.5
Mauritius	1968	10.5
Morocco	1964-66	2.4
Mozambique	1964-66	4.0
Niger	1964-66	1.0
Nigeria	1964-66	4.0
Rhodesia	1964-66	4.8
Senegal	1964-66	30.6
Sierra Leone	1964-66	16.0
Somalia	1964-66	1.0
South Africa	1960-61	19.3
Tanzania	1964-66	6.4
Togo	1964-66	6.4
Tunisia	1964-66	5.6
Uganda	1964-66	8.8
Upper Volta	1964-66	1.6
Zambia	1964-66	16.1
Oceania:		
Australia	1967-68	14.5
New Zealand	1967	15.3

Note:--Data for most countries are tentative.

Source:--"Production Yearbook, 1969", Volume 23, Food and Agriculture of the United Nations.

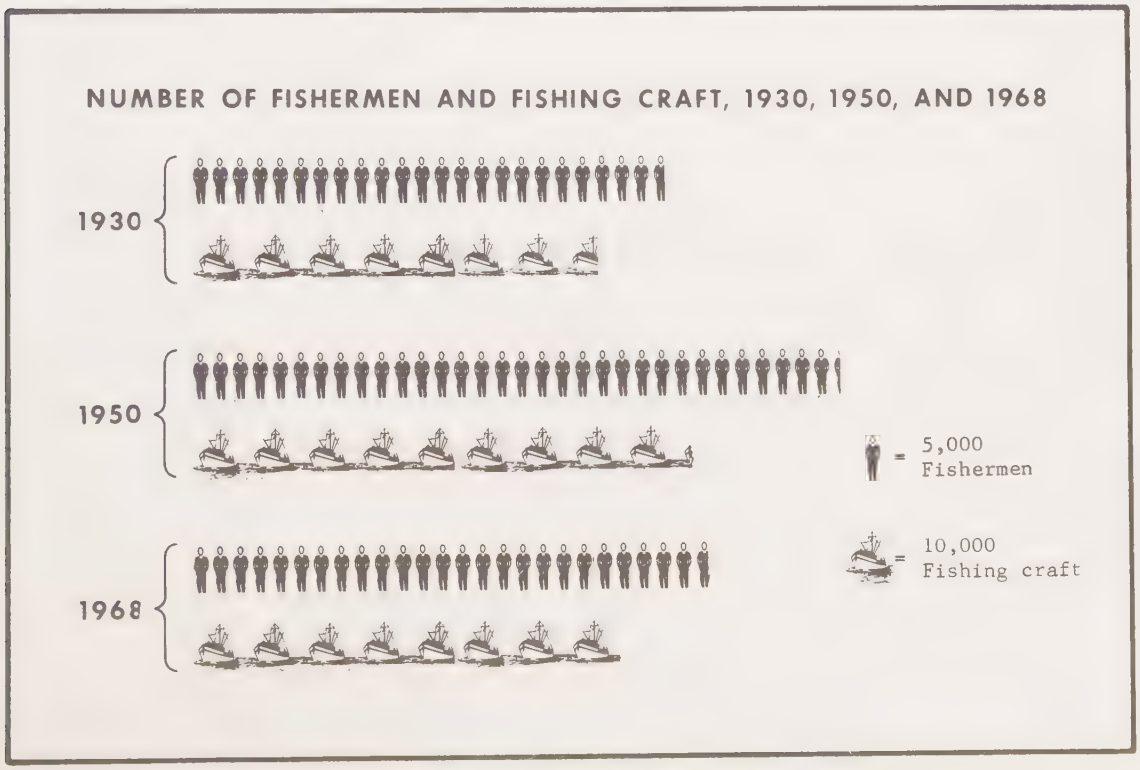
PLANTS PRODUCING CANNED AND INDUSTRIAL FISHERY PRODUCTS, 1970

Area and State	Canned fishery products	Industrial fishery products	Total plants, exclusive of duplication
	Number	Number	Number
New England:			
Maine	25	10	35
Massachusetts	5	3	8
Rhode Island	-	1	1
Connecticut	1	-	1
Total	31	14	45
Middle Atlantic:			
New York	9	-	9
New Jersey	12	4	16
Pennsylvania	4	1	5
Delaware	1	-	1
Total	26	5	31
Chesapeake:			
Maryland	4	4	8
Virginia	4	8	12
Total	8	12	20
South Atlantic and Gulf:			
North Carolina	4	14	16
South Carolina	2	-	2
Georgia	-	1	1
Florida	3	4	7
Alabama	-	2	2
Mississippi	10	5	15
Louisiana	17	30	47
Texas	2	2	4
Total	38	58	94
Great Lakes and Mississippi River:			
Illinois	1	-	1
Iowa	-	2	2
Kansas	1	-	1
Michigan	2	-	2
Nebraska	1	-	1
Wisconsin	3	1	4
Total	8	3	11
Pacific Coast:			
Alaska	110	1	111
Washington	46	6	52
Oregon	18	4	20
California	19	19	31
Total	193	30	214
Hawaii	1	-	1
American Samoa	2	2	2
Puerto Rico	4	3	4
Grand total	311	127	422

EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1930-68

Item	1930	1940	1950	1960	1968
	Number	Number	Number	Number	Number
Persons employed, direct:					
Fishermen	119,716	124,795	161,463	130,431	128,449
Shoreworkers	78,996	90,215	102,015	93,625	88,742
Total	198,712	215,010	263,478	224,056	217,191
Craft utilized, fishing:					
Vessels (5 net tons and over)	4,374	5,562	11,496	12,018	13,037
Motor boats	35,437	31,055	46,067	56,889	65,529
Other boats	37,961	35,193	34,747	8,150	2,045
Total	77,772	71,810	92,310	77,057	80,611
Vessels, documented for fishing:					
First Documentation	(1)	320	812	408	824
Redocumentation	(1)	(1)	29	24	31
Total	(1)	(1)	841	432	855
Fishery shore establishments:					
Pacific Coast States	569	579	700	515	575
Atlantic Coast and Gulf States	2,024	2,038	2,699	2,898	2,774
Great Lakes and Mississippi River States	402	438	484	772	586
Hawaii	(1)	(1)	(1)	22	32
Total	2,995	3,055	3,883	4,207	3,967

1/ Data not available.



ADDITIONS TO THE U.S. FISHING FLEET, 1969

Gross tonnage	By tonnage groups									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
5 - 9	9	-	49	4	25	49	-	-	-	136
10 - 19	8	1	12	17	63	109	3	1	2	216
20 - 29	4	2	1	5	26	29	1	-	-	68
30 - 39	1	1	-	2	10	26	-	-	-	40
40 - 49	1	-	-	3	7	17	-	-	-	28
50 - 59	1	-	-	3	6	10	-	-	-	20
60 - 69	1	-	1	5	6	3	-	-	-	16
70 - 79	-	-	-	4	4	-	-	-	-	8
80 - 89	-	-	-	5	18	2	-	-	-	25
90 - 99	2	5	-	9	73	2	-	1	-	92
100 - 109	-	-	-	-	18	-	-	-	-	18
110 - 119	1	4	-	1	14	-	-	-	-	20
120 - 129	-	2	2	1	15	1	-	-	-	21
130 - 139	1	-	-	-	17	1	-	-	-	19
140 - 149	-	-	-	1	5	-	-	-	-	6
150 - 159	-	2	-	-	9	2	-	-	-	13
160 - 169	-	-	-	-	-	3	-	-	-	3
170 - 179	-	-	-	-	-	2	-	-	-	2
180 - 189	-	-	-	-	-	5	-	-	-	5
190 - 199	-	-	-	-	-	7	-	-	-	7
200 - 209	-	-	-	-	-	1	-	-	-	1
280 - 289	-	-	-	-	-	1	-	-	-	1
320 - 329	-	-	-	-	-	1	-	-	-	1
530 - 539	-	-	-	-	-	1	-	-	-	1
540 - 549	-	-	-	-	-	1	-	-	-	1
710 - 719	-	-	-	-	-	1	-	-	-	1
720 - 729	-	-	-	-	-	4	-	-	-	4
860 - 869	-	-	-	-	-	3	-	-	1	4
880 - 889	-	-	-	-	-	1	-	-	-	1
910 - 919	-	-	-	-	-	1	-	-	-	1
920 - 929	-	-	-	-	-	1	-	-	-	1
990 - 999	-	-	-	-	-	-	-	-	1	1
1590 - 1599	-	2	-	-	-	-	-	-	-	2
Total: Vessels	29	19	65	60	316	284	4	2	4	783
Gross tonnage	898	4,774	833	3,011	21,614	19,793	62	115	1,882	52,982

Length in feet	By length distribution									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
20 - 29	9	-	2	5	15	63	1	-	-	95
30 - 39	7	1	55	16	73	99	3	1	1	256
40 - 49	5	2	5	7	33	72	-	-	1	125
50 - 59	3	1	1	7	19	10	-	-	-	41
60 - 69	2	9	-	20	125	3	-	-	-	159
70 - 79	3	4	-	4	51	8	-	1	-	71
80 - 89	-	-	2	1	-	10	-	-	-	13

(continued on next page)

ADDITIONS TO THE U.S. FISHING FLEET, 1969 - Continued

Length in feet	By length distribution									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
90 - 99	-	-	-	-	-	2	-	-	-	2
100 - 109	-	-	-	-	-	3	-	-	-	3
120 - 129	-	-	-	-	-	1	-	-	-	1
130 - 139	-	-	-	-	-	5	-	-	-	5
150 - 159	-	-	-	-	-	5	-	-	1	6
160 - 169	-	-	-	-	-	3	-	-	-	3
170 - 179	-	-	-	-	-	-	-	-	1	1
260 - 269	-	2	-	-	-	-	-	-	-	2
Total vessels	29	19	65	60	316	284	4	2	4	783

Horse power	By horse power distribution									
	New England	Middle Atlantic	Chesa-peake	South Atlantic	Gulf	Pacific Coast	Great Lakes	Hawaii	Puerto Rico	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number	Number
Under 100	-	-	3	2	17	38	-	-	2	62
100 - 199	11	2	20	12	90	101	2	-	-	238
200 - 299	7	1	31	14	25	65	-	1	-	144
300 - 399	7	12	10	23	133	23	-	1	-	209
400 - 499	2	2	-	7	21	15	1	-	-	48
500 - 599	1	-	-	2	29	10	-	-	-	42
600 - 699	-	-	1	-	1	3	1	-	-	6
700 - 799	1	-	-	-	-	13	-	-	-	14
800 - 899	-	-	-	-	-	1	-	-	-	1
900 - 999	-	-	-	-	-	1	-	-	-	1
1000 - 1099	-	-	-	-	-	2	-	-	-	2
1500 - 1599	-	-	-	-	-	1	-	-	-	1
1700 - 1799	-	-	-	-	-	1	-	-	-	1
2100 - 2199	-	-	-	-	-	1	-	-	-	1
2200 - 2299	-	-	-	-	-	5	-	-	-	5
2800 - 2899	-	-	-	-	-	4	-	-	1	5
3000 - 3099	-	2	-	-	-	-	-	-	-	2
3500 - 3599	-	-	-	-	-	-	-	-	1	1
Total vessels	29	19	65	60	316	284	4	2	4	783

FISHERY COOPERATIVES

Fishery cooperatives, as shown in the table below, include those organizations currently recognized by the Department of Commerce as cooperatives under provisions of the Fishery Cooperative Marketing Act of 1934. Cooperatives may market, purchase, or bargain collectively for their members. A few engage in other operations as well.

There were 80 fishery cooperatives in the United States in 1970 with a combined membership of 9,456 fishermen. Members owned 6,895 fishing craft.

FISHERY COOPERATIVES IN THE UNITED STATES AND PUERTO RICO, 1970

REGION AND STATE	FISHERY COOPERATIVES	MEMBERS	CRAFT	FUNCTIONS PERFORMED BY COOPERATIVES					
				MARKETING AND PURCHASING	MARKETING EXCLUSIVELY	COLLECTIVE BARGAINING EXCLUSIVELY	PURCHASING EXCLUSIVELY	MARKETING, PURCHASING, AND COLLECTIVE BARGAINING	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
NEW ENGLAND:									
MAINE	7	413	243	4	-	-	3	-	-
MASSACHUSETTS	6	999	791	5	1	-	-	-	-
RHODE ISLAND	1	130	44	1	-	-	-	-	-
TOTAL	14	1,542	1,078	10	1	-	3	-	-
MIDDLE ATLANTIC:									
NEW JERSEY	2	90	46	1	1	-	-	-	-
NEW YORK	1	(1)	(1)	1	-	-	-	-	-
TOTAL	3	90	46	2	1	-	-	-	-
SOUTH ATLANTIC AND GULF:									
FLORIDA	5	166	205	1	4	-	-	-	-
GEORGIA	1	200	100	1	-	-	-	-	-
LOUISIANA	4	109	155	2	1	1	-	-	-
MISSISSIPPI	1	375	1	-	-	-	-	-	1
NORTH CAROLINA	1	3	1	-	1	-	-	-	-
SOUTH CAROLINA	1	10	25	1	-	-	-	-	-
TEXAS	1	56	90	-	1	-	-	-	-
TOTAL	14	919	577	5	7	1	-	-	1
GREAT LAKES AND INLAND AREAS:									
ARKANSAS	1	34	-	-	1	-	-	-	-
MINNESOTA	3	260	160	1	1	-	-	-	2/1
OHIO	1	5	5	-	1	-	-	-	-
TENNESSEE	1	75	-	1	-	-	-	-	-
TOTAL	6	374	165	2	3	-	-	-	2/1
PACIFIC COAST:									
ALASKA	19	2,632	1,771	7	-	4	2	4	2
CALIFORNIA	12	1,489	1,057	-	4	4	-	3	3/1
OREGON	1	16	16	-	1	-	-	-	-
WASHINGTON	8	2,345	2,174	-	7	-	-	1	-
TOTAL	40	6,482	5,018	7	12	8	2	8	3
HAWAII	1	7	7	1	-	-	-	-	-
PUERTO RICO	2	42	4	-	1	-	-	-	4/1
GRAND TOTAL	80	9,456	6,895	27	25	9	5	8	6

1/ NOT REPORTED.
2/ DOCKING FACILITIES.
3/ MARINE INSURANCE.
4/ PRODUCTION.

SOURCE: --DIVISION OF CURRENT ECONOMIC ANALYSIS.

PUBLICATIONS

(DETACH AND USE FOR REQUESTING PUBLICATIONS LISTED ON PAGE 74)

TO OBTAIN FISHERY STATISTICAL PUBLICATIONS:

Current Fishery Statistics and Fishery Product Reports

Current statistical information on fishery production, processed products, and foreign trade are issued monthly, quarterly, and annually for States, regions, or larger areas. The Current Fishery Statistical reports listed on page 74 are mailed free to interested persons and organizations. To be placed on the mailing list to receive any of these reports, detach this sheet, fill in name and address below, check desired reports on page 74, and mail to the office below. Fishery product reports contain daily market data on landings, receipts, supplies, prices, foreign trade, market developments, and other fishery developments in the United States and foreign countries. To obtain the fishery product reports, a request should be mailed to:

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Division of Statistics and Market News
1801 N. Moore Street
Arlington, Virginia 22209

Statistical Digests

These reports contain annual statistics with detailed tabulations and narrative analyses on the fishery catch, operating units, processed products, foreign trade, and related subjects. A limited number of Statistical Digests are made available each year for free distribution to Government agencies, research organizations, State fishery departments, and other groups having special interests in fishery statistics. Persons or organizations not meeting these qualifications can purchase copies from:

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

Economic Situation and Outlook Series

These quarterly publications contain an analyses of the factors affecting prices of fishery products. The reports have text plus considerable tabular data and many charts to illustrate economic trends, conditions, and future outlooks for all major fishery commodities. Publications in this series are mailed free to interested persons or organizations. To be placed on the mailing list, a request should be mailed to:

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Division of Current Economic Analysis
1801 N. Moore Street
Arlington, Virginia 22209

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PUBLICATIONS

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The following are issued only as annual bulletins:

( )		Fisheries of the United States (Comprehensive review of the fisheries)
( )	SR-1	New England Fisheries
( )	SR-2	Middle Atlantic Fisheries
( )	SR-3	Chesapeake Fisheries
( )	SR-4	South Atlantic Fisheries
( )	SR-5	Gulf Fisheries
( )	SR-6	Pacific Coast Fisheries
( )	SR-6	Hawaii Fisheries
( )	SR-7	Great Lakes Fisheries
( )	SR-8	Mississippi River Fisheries
( )	SR-9	Alaska Fisheries
( )	SR-10	United States Fisheries (Summary, operating unit, and catch statistics)
( )	MF-1	Canned Fishery Products
( )	MF-2	Industrial Fishery Products
( )	MF-3	Packaged Fishery Products
( )	MF-4	Processed Fishery Products
( )	MF-5	Fish Sticks, Fish Portions, and Breaded Shrimp (Quarterly and annual)
( )	MF-6	Imports and Exports of Fishery Products

The following are issued as monthly and annual bulletins:

( )	FF	Frozen Fishery Products
( )	FM	Fish Meal and Oil
( )	NA-1	Maine Landings
( )	NA-2	Massachusetts Landings
( )	NA-3	Rhode Island Landings
( )	NA-4	New York Landings
( )	NA-5	New Jersey Landings
( )	SA-1	Maryland Landings
( )	SA-2	Virginia Landings
( )	SA-3	North Carolina Landings
( )	SA-4	South Carolina Landings
( )	SA-5	Georgia Landings
( )	GC-1	Florida Landings
( )	GC-2	Alabama Landings
( )	GC-3	Mississippi Landings
( )	GC-4	Louisiana Landings
( )	GC-5	Texas Landings
( )	GC-6	Shrimp Landings
( )	GCS	Gulf Coast Shrimp Data
( )	PC-1	Washington Landings (annual only)
( )	PC-2	Oregon Landings (annual only)
( )	PC-3	California Landings (monthly only)
( )	GL-2	Michigan, Ohio and Wisconsin Landings

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